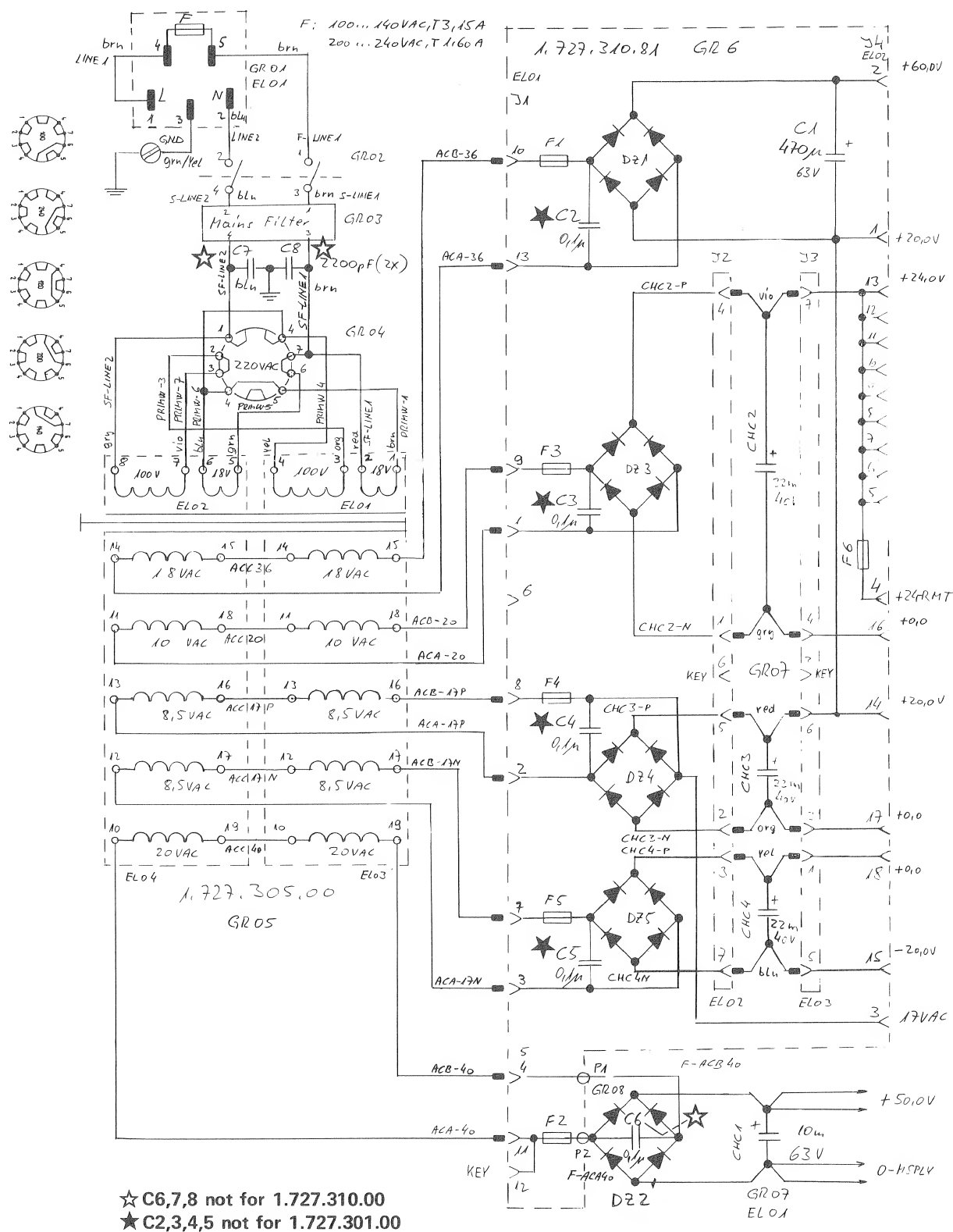
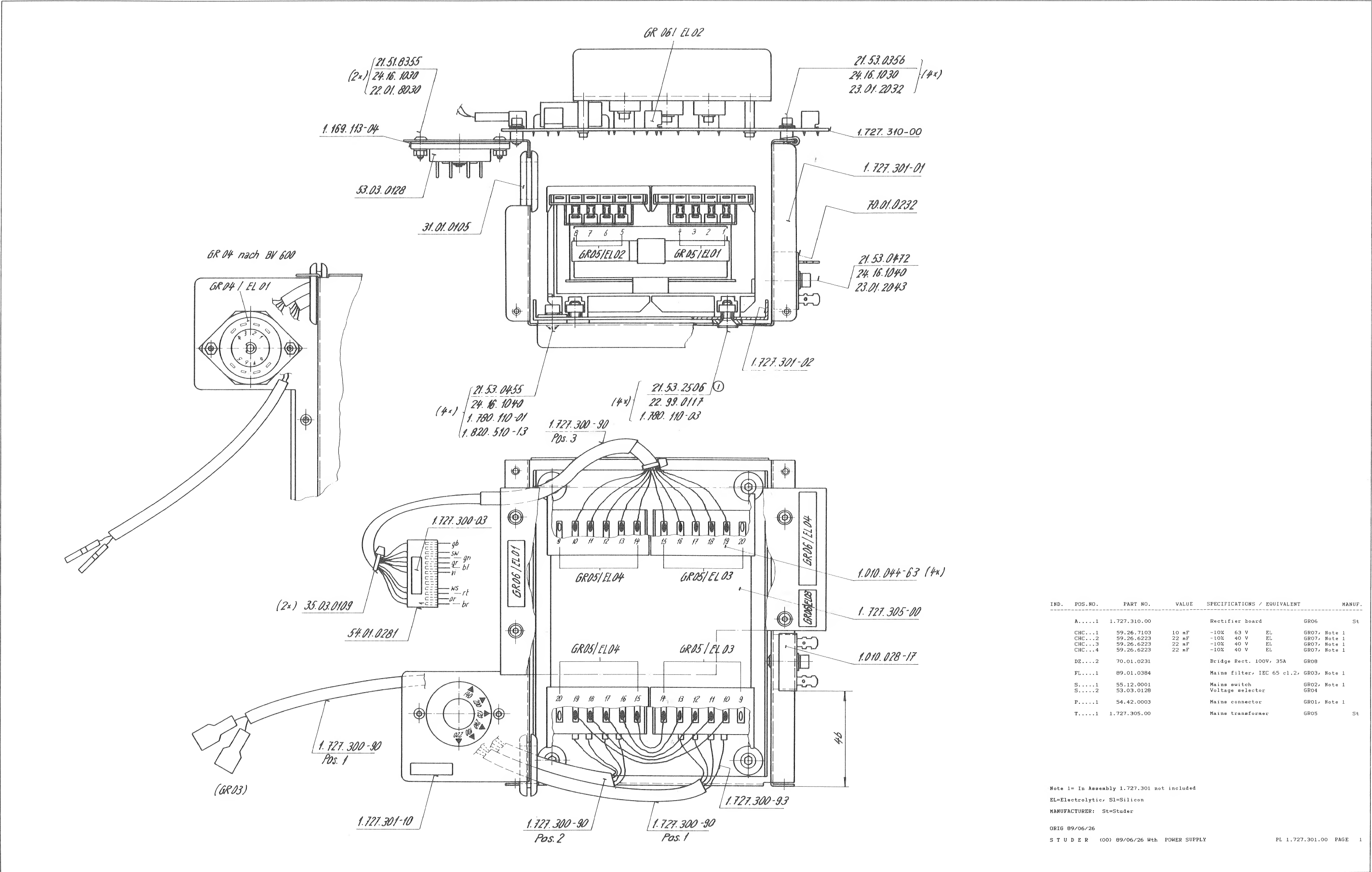


**POWER SUPPLY 1.727.301.00/1.727.301.81 (2CH)**  
**-RECTIFIER BOARD 1.727.310.00/1.727.310.81 (2CH)**



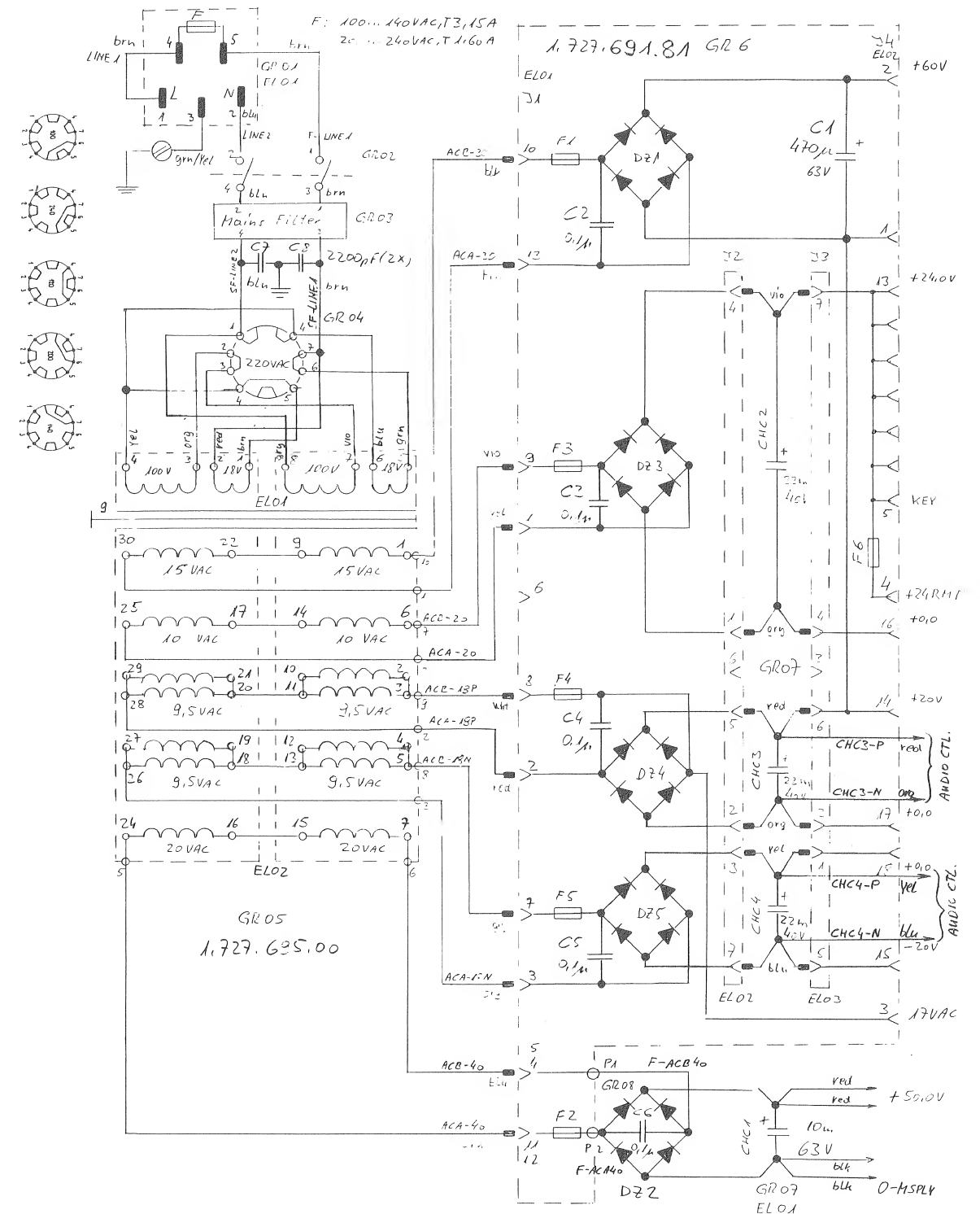
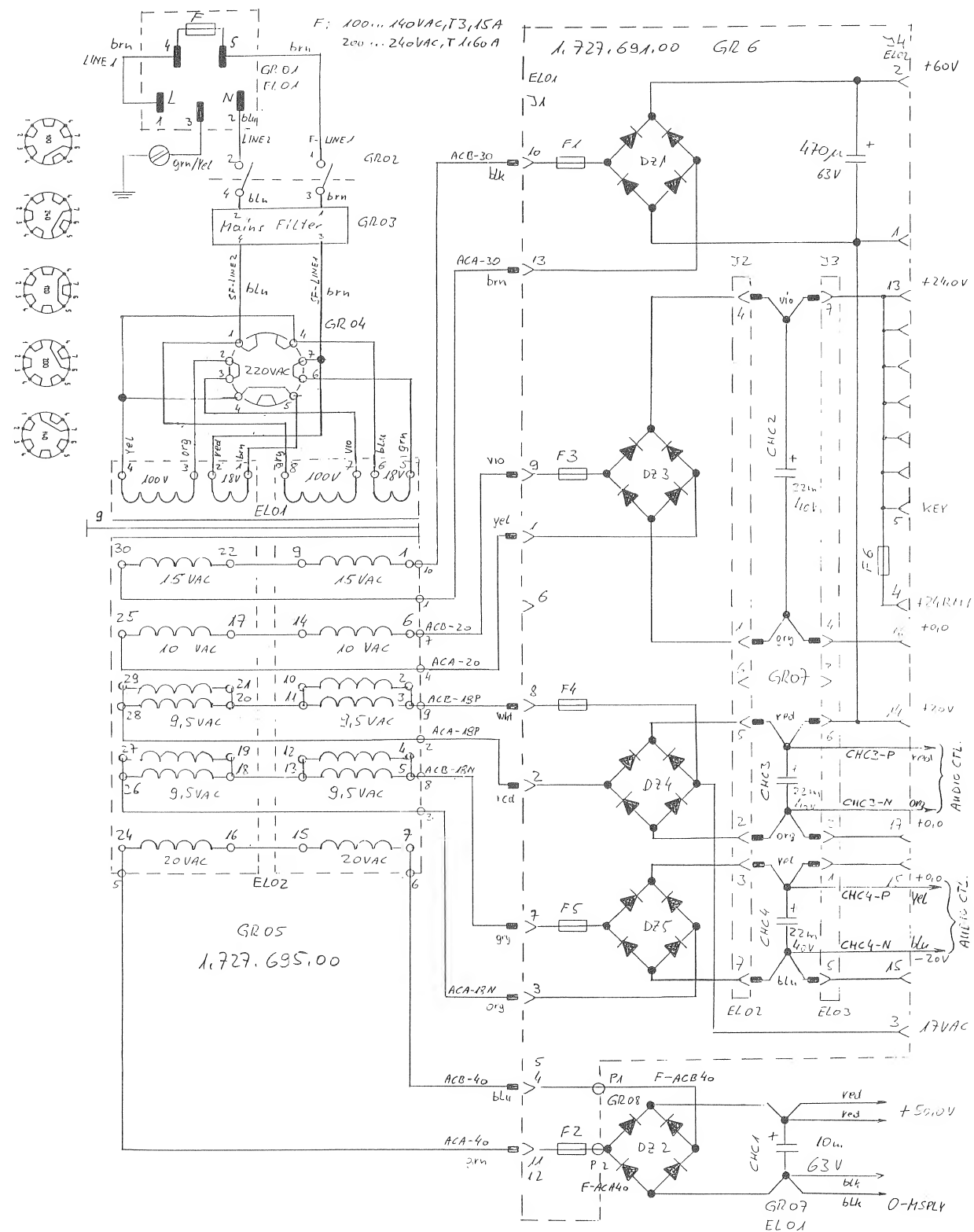
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| A 807 GR 2/3/4/5/6 | PAGE 1 OF 1  |     |     |              |
| STUDER             | POWER SUPPLY |     |     | 1.727.301.81 |

POWER SUPPLY 1.727.301.00 (2CH)





**POWER SUPPLY 1.727.690.00/1.727.692.81 (4CH)**  
**-RECTIFIER BOARD 1.727.691.00/1.727.691.81 (4CH)**



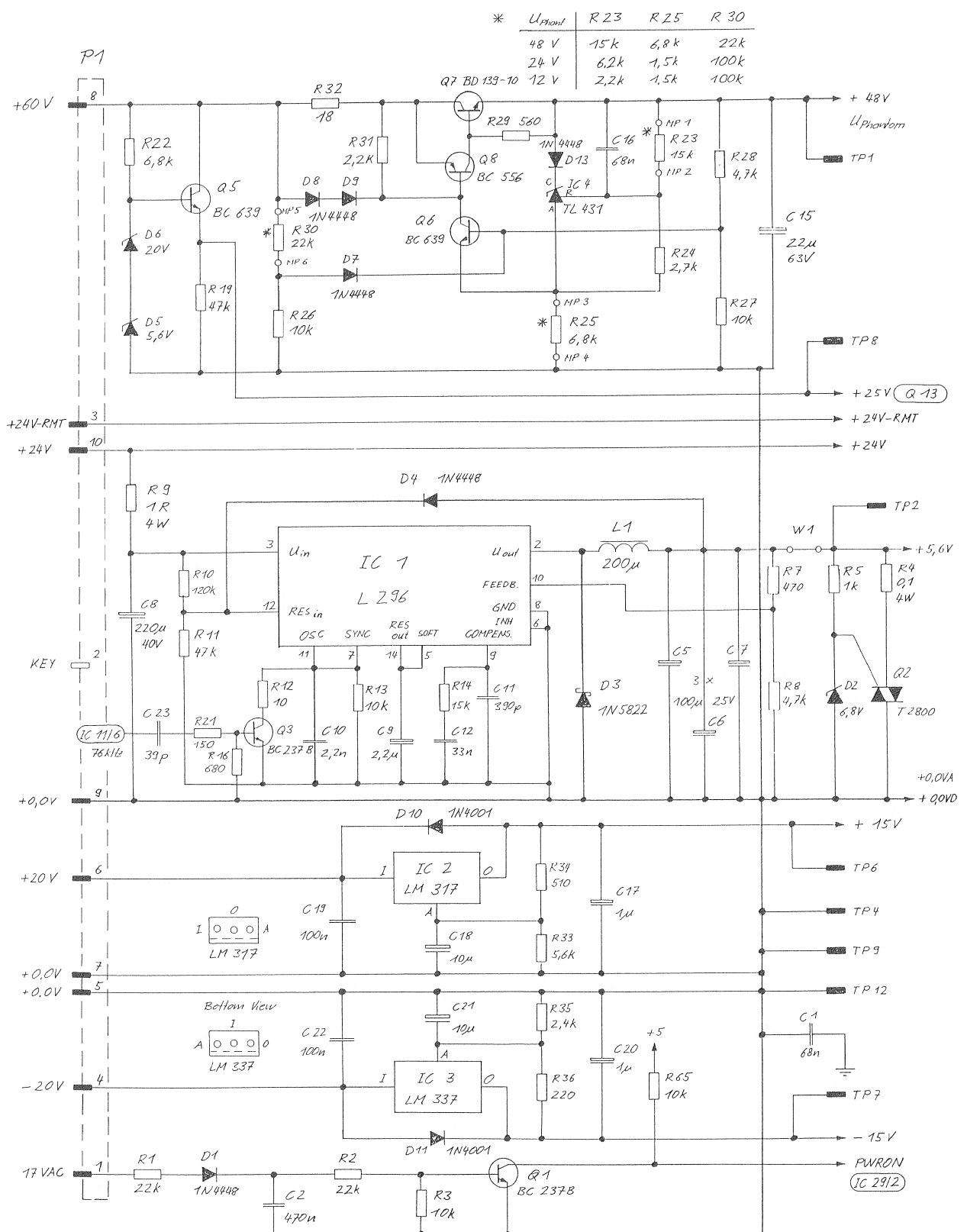
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| 0 4.7.88 W.H.          | ...          | ...          | ... | ... |
| A 807 GR 2/3/4/5/6/7/8 | PAGE 1 OF 1  |              |     |     |
| STUDER                 | POWER SUPPLY | 1.727.690.00 |     |     |

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| 0 29.4.91 W.H.         | ...          | ...          | ... | ... |
| A 807 GR 2/3/4/5/6/7/8 | PAGE 1 OF 1  |              |     |     |
| STUDER                 | POWER SUPPLY | 1.727.692.81 |     |     |



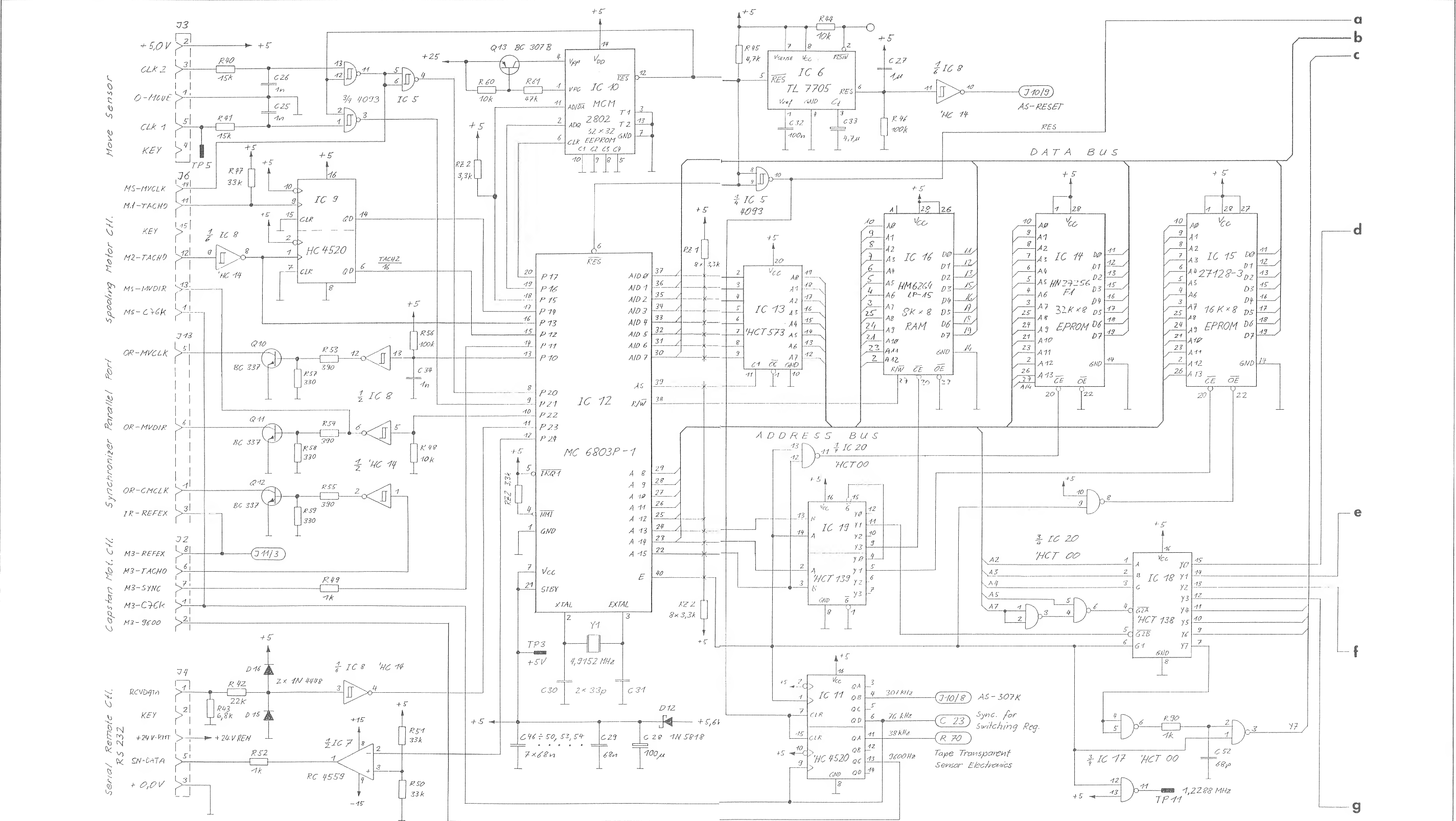
# TAPE DECK ELECTRONICS 1.727.650.25

## -STABILIZER SECTION



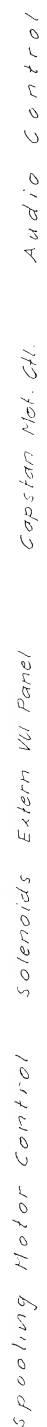
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| ① 20,3,90 W | ① ..                  | ② .. | ③ .. | ④ ..            |
| A 807 GR 10 | PAGE 1 OF 5           |      |      |                 |
| STUDER      | Tape Deck Electronics |      |      | SC 1.727.650.25 |

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|         |                       |    |              |   |   |             |
|---------|-----------------------|----|--------------|---|---|-------------|
| 20.3.90 | W/H                   | 1  | 2            | 3 | 4 | 5           |
| A 807   | GR 10                 |    |              |   |   | PAGE 2 OF 5 |
| STUDER  | Tape Deck Electronics | sc | 1.727.650.25 |   |   |             |

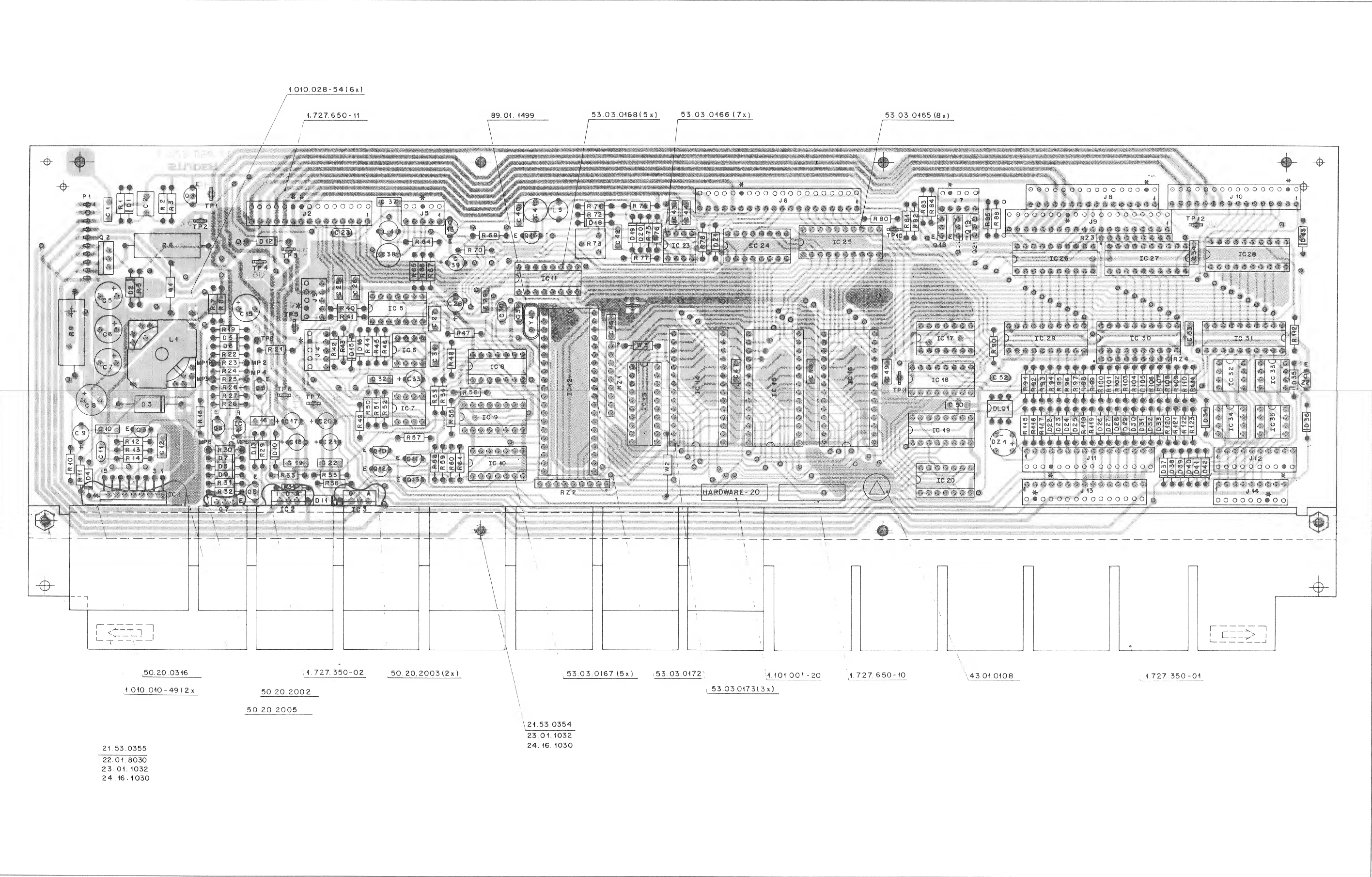
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| 20.3.90 | W/H                   | 1  | 2            | 3 | 4 | 5           |
| A 807   | GR 10                 |    |              |   |   | PAGE 3 OF 5 |
| STUDER  | Tape Deck Electronics | sc | 1.727.650.25 |   |   |             |



|               |                       |       |              |
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| ① 20.3.90 W/H | ② . .                 | ③ . . | ④ . .        |
|               | A 807 GR 10           |       | PAGE 5 OF 5  |
| STUDER        | Tape Deck Electronics | SC    | 1.727.650.25 |



TAPE DECK ELECTRONICS 1.727.650.25

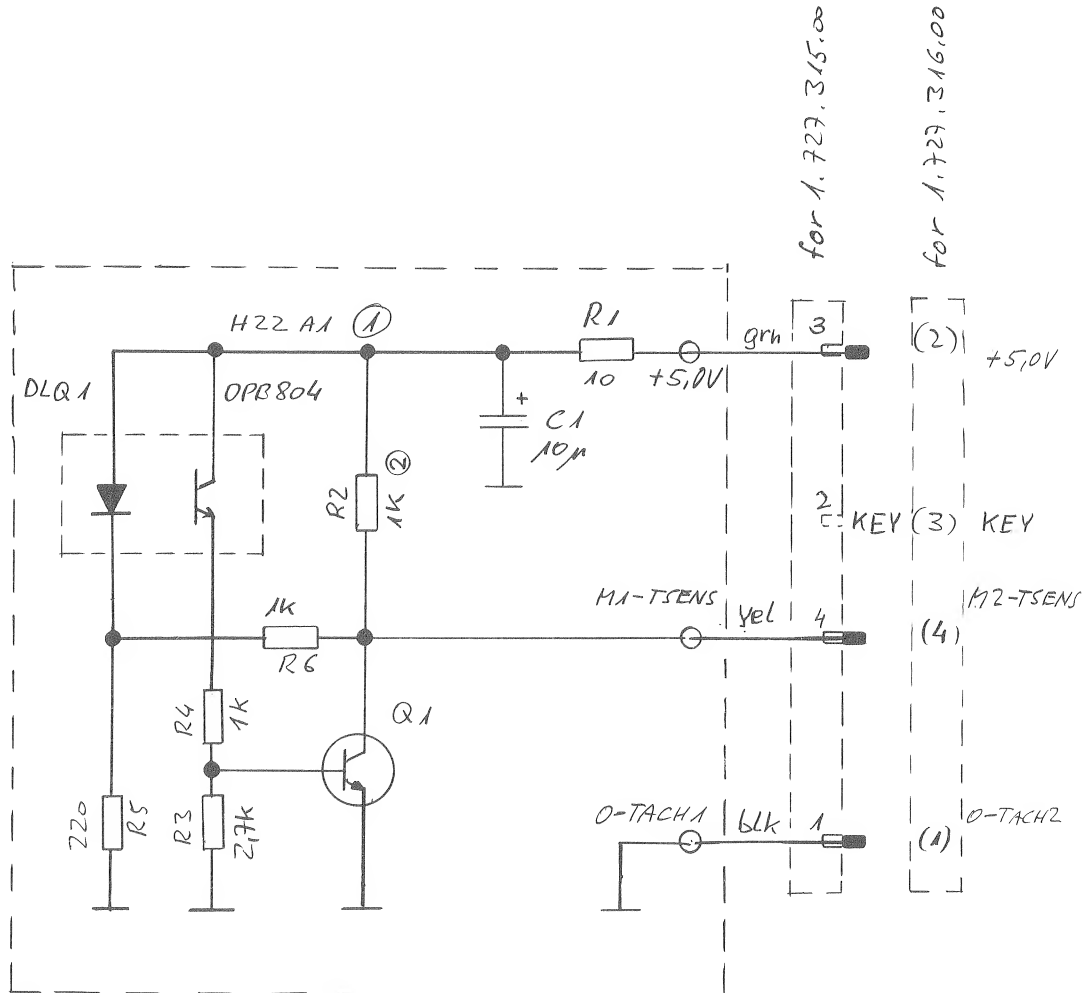


## STUDER A807 MKII

## TAPE DECK ELECTRONICS 1.727.650.25

| IND.  | POS.NO.    | PART NO. | VALUE               | SPECIFICATIONS / EQUIVALENT | MANUF.                 | IND.  | POS.NO.      | PART NO.                             | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF.                 | IND.  | POS.NO.    | PART NO. | VALUE                       | SPECIFICATIONS / EQUIVALENT | MANUF.                 | IND.  | POS.NO.    | PART NO.  | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF.                  |
|---|------------|----------|---------------------|-----------------------------|------------------------|---|--------------|--------------------------------------|--------------------------|-----------------------------|------------------------|---|------------|----------|-----------------------------|-----------------------------|------------------------|---|------------|-----------|--------------------------|-----------------------------|-------------------------|
| C....1  | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | IC...20   | 50.17.0000   | 74 HCT 00                            |                          |                             |                        | R....36   | 57.11.3221 | 220 Ohm  | 1%                          | 0.25W, MF                   |                        | XIC...17  | 53.03.0167 | 14 Pole   | IC Socket                |                             |                         |
| C....2  | 59.06.0474 | 470 nF   | 10%                 | 63 V PETP                   |                        | IC...23   | 50.09.0107   | RC 4559                              |                          |                             |                        | R....40   | 57.11.3153 | 15 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...18  | 53.03.0168 | 16 Pole   | IC Socket                |                             |                         |
| C....5  | 59.22.5101 | 100 uF   | -20%                | 25 V EL                     |                        | IC...24   | 50.07.0002   | AD 75243N                            | uPC 4559                 | ADI                         |                        | R....41   | 57.11.3153 | 15 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...19  | 53.03.0168 | 16 Pole   | IC Socket                |                             |                         |
| C....6  | 59.22.5101 | 100 uF   | -20%                | 25 V EL                     |                        | IC...25   | 50.17.0574   | 74 HCT574                            | 8 Bit D/A Converter      |                             |                        | R....42   | 57.11.3223 | 22 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...20  | 53.03.0167 | 14 Pole   | IC Socket                |                             |                         |
| C....7  | 59.22.5101 | 100 uF   | -20%                | 25 V EL                     |                        | IC...26   | 50.17.0574   | 74 HCT574                            |                          |                             |                        | R....43   | 57.11.3682 | 6.8 kOhm | 1%                          | 0.25W, MF                   |                        | XIC...23  | 53.03.0166 | 8 Pole    | IC Socket                |                             |                         |
| C....8  | 59.22.6221 | 220 uF   | -20%                | 40 V EL                     |                        | IC...27   | 50.17.1541   | 74 HC 541                            |                          |                             |                        | R....44   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...24  | 53.03.0168 | 16 Pole   | IC Socket                |                             |                         |
| C....9  | 59.22.8229 | 2.2 uF   | -20%                | 50 V EL                     |                        | IC...28   | 50.17.0574   | 74 HCT574                            |                          |                             |                        | R....45   | 57.11.3472 | 4.7 kOhm | 1%                          | 0.25W, MF                   |                        | XIC...25  | 53.03.0165 | 20 Pole   | IC Socket                |                             |                         |
| C....10   | 59.06.0222 | 2.2 nF   | 10%                 | 63 V PETP                   |                        | IC...29   | 50.17.1541   | 74 HC 541                            |                          |                             |                        | R....46   | 57.11.3104 | 100 kOhm | 1%                          | 0.25W, MF                   |                        | XIC...26  | 53.03.0165 | 20 Pole   | IC Socket                |                             |                         |
| C....11   | 59.34.5391 | 390 pF   | 5%                  | 63 V CER                    |                        | IC...30   | 50.17.1541   | 74 HC 541                            |                          |                             |                        | R....47   | 57.11.3333 | 33 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...27  | 53.03.0165 | 20 Pole   | IC Socket                |                             |                         |
| C....12   | 59.06.0333 | 33 nF    | 10%                 | 63 V PETP                   |                        | IC...31   | 50.17.0574   | 74 HCT574                            |                          |                             |                        | R....48   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...28  | 53.03.0165 | 20 Pole   | IC Socket                |                             |                         |
| C....15   | 59.22.8220 | 22 uF    | -20%                | 63 V EL                     |                        | IC...32   | 50.05.0203   | SN 75463P                            |                          |                             | TI                     | R....49   | 57.11.3102 | 1 kOhm   | 1%                          | 0.25W, MF                   |                        | XIC...29  | 53.03.0165 | 20 Pole   | IC Socket                |                             |                         |
| C....16   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | IC...33   | 50.05.0203   | SN 75463P                            |                          |                             | TI                     | R....50   | 57.11.3333 | 33 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...30  | 53.03.0165 | 20 Pole   | IC Socket                |                             |                         |
| C....17   | 59.22.8109 | 1 uF     | -20%                | 50 V EL                     |                        | IC...34   | 50.05.0203   | SN 75463P                            |                          |                             | TI                     | R....51   | 57.11.3333 | 33 kOhm  | 1%                          | 0.25W, MF                   |                        | XIC...31  | 53.03.0165 | 20 Pole   | IC Socket                |                             |                         |
| C....18   | 59.22.6100 | 10 uF    | -20%                | 35 V EL                     |                        | IC...35   | 50.05.0203   | SN 75463P                            |                          |                             | TI                     | R....52   | 57.11.3102 | 1 kOhm   | 1%                          | 0.25W, MF                   |                        | XIC...32  | 53.03.0166 | 8 Pole    | IC Socket                |                             |                         |
| C....19   | 59.06.0104 | 100 nF   | 10%                 | 63 V PETP                   |                        |   |              |                                      |                          |                             |                        | R....53   | 57.11.3391 | 390 Ohm  | 1%                          | 0.25W, MF                   |                        | XIC...33  | 53.03.0166 | 8 Pole    | IC Socket                |                             |                         |
| C....20   | 59.22.8109 | 1 uF     | -20%                | 50 V EL                     |                        | J....2  | 54.01.0219   | 15 Pole                              | CIS Socket Strip         | ANP                         |                        | R....54   | 57.11.3391 | 390 Ohm  | 1%                          | 0.25W, MF                   |                        | XIC...34  | 53.03.0166 | 8 Pole    | IC Socket                |                             |                         |
| C....21   | 59.22.6100 | 10 uF    | -20%                | 35 V EL                     |                        | J....3  | 54.01.0288   | 5 Pole                               | CIS Socket Strip         | ANP                         |                        | R....55   | 57.11.3391 | 390 Ohm  | 1%                          | 0.25W, MF                   |                        | XIC...35  | 53.03.0166 | 8 Pole    | IC Socket                |                             |                         |
| C....22   | 59.06.0104 | 100 nF   | 10%                 | 63 V PETP                   |                        | J....4  | 54.01.0288   | 5 Pole                               | CIS Socket Strip         | ANP                         |                        | R....56   | 57.11.3104 | 100 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....23   | 59.34.2390 | 39 pF    | 10%                 | 63 V CER                    |                        | J....5  | 54.01.0288   | 5 Pole                               | CIS Socket Strip         | ANP                         |                        | R....57   | 57.11.3331 | 330 Ohm  | 1%                          | 0.25W, MF                   |                        | Y....1  | 89.01.0560 | 4.9152MHz | +20 ppm, HC 49 U, Quartz | ITT                         |                         |
| C....25   | 59.06.0102 | 1 nF     | 10%                 | 63 V PETP                   |                        | J....6  | 54.01.0226   | 20 Pole                              | CIS Socket Strip         | ANP                         |                        | R....58   | 57.11.3331 | 330 Ohm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....26   | 59.06.0102 | 1 nF     | 10%                 | 63 V PETP                   |                        | J....7  | 54.01.0288   | 5 Pole                               | CIS Socket Strip         | ANP                         |                        | R....59   | 57.11.3331 | 330 Ohm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....27   | 59.06.0105 | 1 uF     | 10%                 | 63 V PETP                   |                        | J....8  | 54.01.0294   | 16 Pole                              | CIS Socket Strip         | ANP                         |                        | R....60   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....28   | 59.22.3101 | 100 uF   | -20%                | 10 V EL                     |                        | J....9  | 54.01.0226   | 20 Pole                              | CIS Socket Strip         | ANP                         |                        | R....61   | 57.11.3473 | 47 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....29   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | J....10   | 54.01.0294   | 16 Pole                              | CIS Socket Strip         | ANP                         |                        | R....64   | 57.11.3392 | 3.9 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....30   | 59.34.2330 | 33 pF    | 10%                 | 63 V CER                    |                        | J....11   | 54.01.0294   | 16 Pole                              | CIS Socket Strip         | ANP                         |                        | R....65   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....31   | 59.34.2330 | 33 pF    | 10%                 | 63 V CER                    |                        | J....12   | 54.01.0290   | 10 Pole                              | CIS Socket Strip         | ANP                         |                        | R....66   | 57.11.3470 | 47 Ohm   | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....32   | 59.06.0104 | 100 nF   | 10%                 | 63 V PETP                   |                        | J....13   | 54.01.0219   | 15 Pole                              | CIS Socket Strip         | ANP                         |                        | R....67   | 57.11.3221 | 220 Ohm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....33   | 59.22.8479 | 4.7 uF   | -20%                | 63 V EL                     |                        | J....14   | 54.01.0217   | 9 Pole                               | CIS Socket Strip         | ANP                         |                        | R....69   | 57.11.3332 | 3.3 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....34   | 59.06.0102 | 1 nF     | 10%                 | 63 V PETP                   |                        |   |              |                                      |                          |                             |                        | R....70   | 57.11.3332 | 3.3 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....37   | 59.06.0222 | 2.2 nF   | 10%                 | 63 V PETP                   |                        | L....1  | 1.022.251.00 | 200uH                                | Filter Coil              | St                          |                        | R....71   | 57.11.3100 | 10 Ohm   | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....38   | 59.05.2153 | 15 nF    | 2.5%                | 63 V PP                     |                        | L....4  | 62.02.3102   | 1mH                                  | RF Choke 10%             |                             |                        | R....72   | 57.11.3562 | 5.6 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....39   | 59.22.8109 | 1 uF     | -20%                | 50 V EL                     |                        | L....5  | 62.02.3102   | 1mH                                  | RF Choke 10%             |                             |                        | R....73   | 58.01.8202 | 2 kOhm   | 10%, 0.5 W, Cermet, Trimmer |                             |                        |   |            |           |                          |                             |                         |
| C....40   | 59.06.0222 | 2.2 nF   | 10%                 | 63 V PETP                   |                        | MP....1   | 1.010.028.54 | 1 Pole                               | Wrap Pin                 |                             |                        | R....74   | 57.11.3153 | 15 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....41   | 59.05.2153 | 15 nF    | 2.5%                | 63 V PP                     |                        | MP....2   | 1.010.028.54 | 1 Pole                               | Wrap Pin                 |                             |                        | R....75   | 57.11.3391 | 390 Ohm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....42   | 59.06.0104 | 100 nF   | 10%                 | 63 V PETP                   |                        | MP....3   | 1.010.028.54 | 1 Pole                               | Wrap Pin                 |                             |                        | R....76   | 57.11.3104 | 100 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....43   | 59.34.2390 | 39 pF    | 10%                 | 63 V CER                    |                        | MP....4   | 1.010.028.54 | 1 Pole                               | Wrap Pin                 |                             |                        | R....77   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....44   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        |   |              |                                      |                          |                             |                        | R....78   | 57.11.3182 | 1.8 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| S T U D E R (00) 91/05/13 Wth TAPE DECK ELECTRONICS |            |          |                     |                             | PL 1.727.650.25 PAGE 1 | S T U D E R (00) 91/05/13 Wth TAPE DECK ELECTRONICS |              |                                      |                          |                             | PL 1.727.650.25 PAGE 4 | S T U D E R (00) 91/05/13 Wth TAPE DECK ELECTRONICS |            |          |                             |                             | PL 1.727.650.25 PAGE 7 | S T U D E R (00) 91/05/13 Wth TAPE DECK ELECTRONICS |            |           |                          |                             | PL 1.727.650.25 PAGE 10 |
| IND.  | POS.NO.    | PART NO. | VALUE               | SPECIFICATIONS / EQUIVALENT | MANUF.                 | IND.  | POS.NO.      | PART NO.                             | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF.                 | IND.  | POS.NO.    | PART NO. | VALUE                       | SPECIFICATIONS / EQUIVALENT | MANUF.                 | IND.  | POS.NO.    | PART NO.  | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF.                  |
| C....46   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | MP....5   | 1.010.028.54 | 1 Pole                               | Wrap Pin                 |                             |                        | R....80   | 57.11.3333 | 33 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....47   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | MP....6   | 1.010.028.54 | 1 Pole                               | Wrap Pin                 |                             |                        | R....81   | 57.11.3121 | 120 Ohm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....48   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | MP....7   | 1.727.650.11 | 1 pce                                | PC Board                 | St                          |                        | R....82   | 57.11.3121 | 120 Ohm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....49   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | MP....8   | 1.727.350.01 | 1 pce                                | Heatink                  | St                          |                        | R....83   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....50   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | MP....9   |              |                                      | not used                 |                             |                        | R....84   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....52   | 59.34.4680 | 68 pF    | 10%                 | 63 V CER                    |                        | MP....10  | 1.727.350.02 | 1 pce                                | Theraofilm               | St                          |                        | R....85   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....53   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | MP....11  | 50.20.0316   | 1 pce                                | Theraoplastic for SOT 93 |                             |                        | R....88   | 57.11.3151 | 150 Ohm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| C....54   | 59.06.0683 | 68 nF    | 10%                 | 63 V PETP                   |                        | MP....12  | 50.20.2002   | 1 pce                                | Mounting clip TD 126     |                             |                        | R....90   | 57.11.3102 | 1 kOhm   | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| D....1  | 50.04.0125 | 1N4448   | 50 V                |                             | MP....13               | 50.20.2003  | 2 pce        | Mounting clip TD 220                 |                          |                             | R....91                | 57.11.3562  | 5.6 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....2  | 50.04.1102 | 6.8 V    | 5% 0.4 W            |                             | MP....14               | 50.20.2005  | 1 pce        | Mounting clip SOT 93                 |                          |                             | R....92                | 57.11.3103  | 10 kOhm    | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....3  | 50.04.0519 | 1N5822   | MBR 340 P 40 V, 3 A | Schottky                    | Met.GI                 | MP....15  |              |                                      | not used                 |                             |                        | R....93   | 57.11.3103 | 10 kOhm  | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| D....4  | 50.04.0125 | 1N4448   | 50 V                |                             | MP....16               |   |              |                                      | not used                 |                             |                        | R....94   | 57.11.3472 | 4.7 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| D....5  | 50.04.1108 | 5.6 V    | 5% 0.4 W            |                             | MP....17               |   |              |                                      | not used                 |                             |                        | R....95   | 57.11.3472 | 4.7 kOhm | 1%                          | 0.25W, MF                   |                        |   |            |           |                          |                             |                         |
| D....6  | 50.04.1109 | 20 V     | 5% 0.4 W            |                             | MP....18               | 21.53.0354  | 2 pce        | M3 * 6 Hexagon socket head cap screw |                          |                             | R....96                | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....7  | 50.04.0125 | 1N4448   | 50 V                |                             | MP....19               | 21.53.0355  | 2 pce        | M3 * 8 Hexagon socket head cap screw |                          |                             | R....97                | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....8  | 50.04.0125 | 1N4448   | 50 V                |                             | MP....20               | 23.01.1022  | 4 pce        | Washer D3.2/6.0                      |                          |                             | R....98                | 57.11.3103  | 10 kOhm    | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....9  | 50.04.0125 | 1N4448   | 50 V                |                             | MP....21               | 24.16.1030  | 2 pce        | Fin washer D3.2/5.5                  |                          |                             | R....99                | 57.11.3103  | 10 kOhm    | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....10   | 50.04.0122 | 1N4001   | ...1N4004 50 V      |                             | MP....22               | 1.727.650.10  | 1 pce        | No. label                            |                          |                             | R....100               | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....11   | 50.04.0122 | 1N4001   | ...1N4004 50 V      |                             | MP....23               | 1.101.001.20  | 1 pce        | Text label                           | St                       |                             | R....101               | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....12   | 50.04.0512 | 1N5818   | 1N5819 30 V         | Schottky                    | MP....24               | 43.01.0108  | 1 pce        | ESD warning label                    |                          |                             | R....102               | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....13   | 50.04.0125 | 1N4448   | 50 V                |                             | MP....25               |   |              | not used                             |                          |                             | R....103               | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....15   | 50.04.0125 | 1N4448   | 50 V                |                             | MP....26               |   |              | not used                             |                          |                             | R....104               | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....16   | 50.04.0125 | 1N4448   | 50 V                |                             | MP....27               | 22.01.8030  | 2 pce        | Hexagon nut                          |                          |                             | R....105               | 57.11.3472  | 4.7 kOhm   | 1%       | 0.25W, MF                   |                             |                        |   |            |           |                          |                             |                         |
| D....18   | 50.04.0125 | 1N4448   | 50 V                |                             | P....1                 | 54.01.0320  | 10 Pole      | CIS Pin Strip                        |                          |                             | R....106               | 57.11.347   |            |          |                             |                             |                        |   |            |           |                          |                             |                         |

SPOOLING MOTOR TACHO LEFT 1.727.315.00 (4CH)  
 -SPOOLING MOTOR TACHO RIGHT 1.727.316.00 (4CH)



|              |                           |            |              |             |
|--------------|---------------------------|------------|--------------|-------------|
| 04.11.86 Wth | 13.11.87 Wth              | 21.3.89 GP | ...          | ...         |
|              | A 807                     |            |              | PAGE 1 OF 1 |
| STUDER       | SPOOLING MOTOR TACHO LEFT |            | 1.727.315.00 |             |
|              | RIGHT                     |            | 1.727.316.00 |             |



SPOOLING MOTOR TACHO LEFT 1.727.315.00 (4CH)  
-SPOOLING MOTOR TACHO RIGHT 1.727.316.00 (4CH)

Litzen auf Print-  
oberfläche  
flach anliegend

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③

1.727.315-11 ③

1.727.315-02 ①

54.01.0280

1.727.315-01

1.727.315-93

35.03.0409

Litzen auf Print-  
oberfläche  
flach anliegend

②

③

1.727.316-11 ③

1.727.316-02 ①

54.01.0280

1.727.316-01

1.727.316-93

35.03.0409

| IND. | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF.                |
|------|---------|--------------|----------|-----------------------------|-----------------------|
|      | C.....1 | 59.26.2100   | 10 uF    | 20%, 16V, Sal               | Ph                    |
| (00) | DLQ...1 | 50.04.2128   | OPB804   |                             | Op                    |
| (01) | DLQ...1 | 50.04.2128   | H22 A1   |                             | GE                    |
|      | MP....1 | 1.727.315.11 | 1 pce    | Sp.Motor Tacho PCB          | St                    |
|      | MP....2 | 1.727.315.93 | 1 pce    | L-LST Sp.Motor Tacho, left  | St                    |
|      | MP....3 | 54.01.0280   | 1 pce    | CIS Case, 4 Pol             | AMP                   |
|      | MP....4 | 1.727.315.10 | 1 pce    | No. Label                   | St                    |
|      | MP....5 | 1.727.315.01 | 1 pce    | Label, GR 11 EL 05          | St                    |
| (01) | MP....6 | 1.727.315.02 | 1 pce    | Spacer                      | St                    |
|      | Q.....1 | 50.03.0436   | BC237B   | BC547B, BC550B              | ITT, Mot, Ph, Sie, Tf |
|      | R.....1 | 57.11.3100   | 10 Ohm   | 2%, 0.25W, MF               |                       |
|      | R.....2 | 57.11.3102   | 1 kOhm   | 2%, 0.25W, MF               |                       |
|      | R.....3 | 57.11.3272   | 2.7 kOhm | 2%, 0.25W, MF               |                       |
| (00) | R.....4 | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF               |                       |
| (02) | R.....4 | 57.11.3102   | 1 kOhm   | 2%, 0.25W, MF               |                       |
|      | R.....5 | 57.11.3221   | 220 Ohm  | 2%, 0.25W, MF               |                       |
|      | R.....6 | 57.11.3102   | 1 kOhm   | 2%, 0.25W, MF               |                       |

(01) Type change  
(02) Reduction of Photo-Transistor Switch-Off Time.

Sal=Solid aluminium

MANUFACTURER: ITT=Intermetall, Mot=Motorola, Op=Optron, Ph=Philips,  
Sie=Siemens, Tf=Telefunken, St=Studer

ORIG 85/08/08 (01) 87/11/13 (02) 89/03/21

S T U D E R (02) 89/03/21 GP SP.MOTOR TACHO BOARD, LEFT PL 1.727.315.00 PAGE 1

Litzen auf Print-  
oberfläche  
flach anliegend

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1.727.316-11 ③

1.727.316-02 ①

54.01.0280

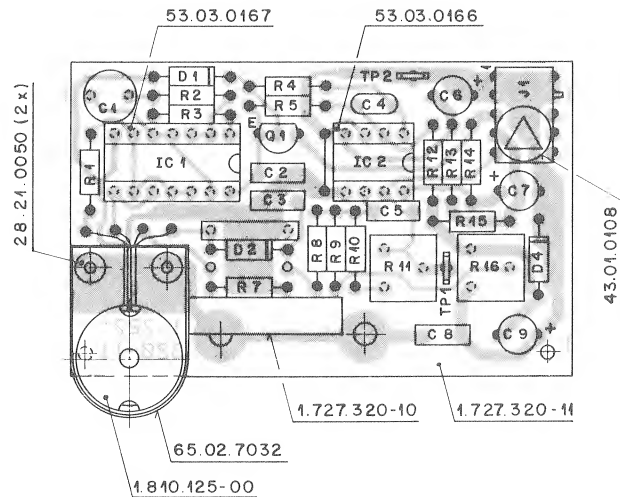
1.727.316-01

1.727.316-93

35.03.0409



TAPE TENSION SENSOR 1.727.320.00

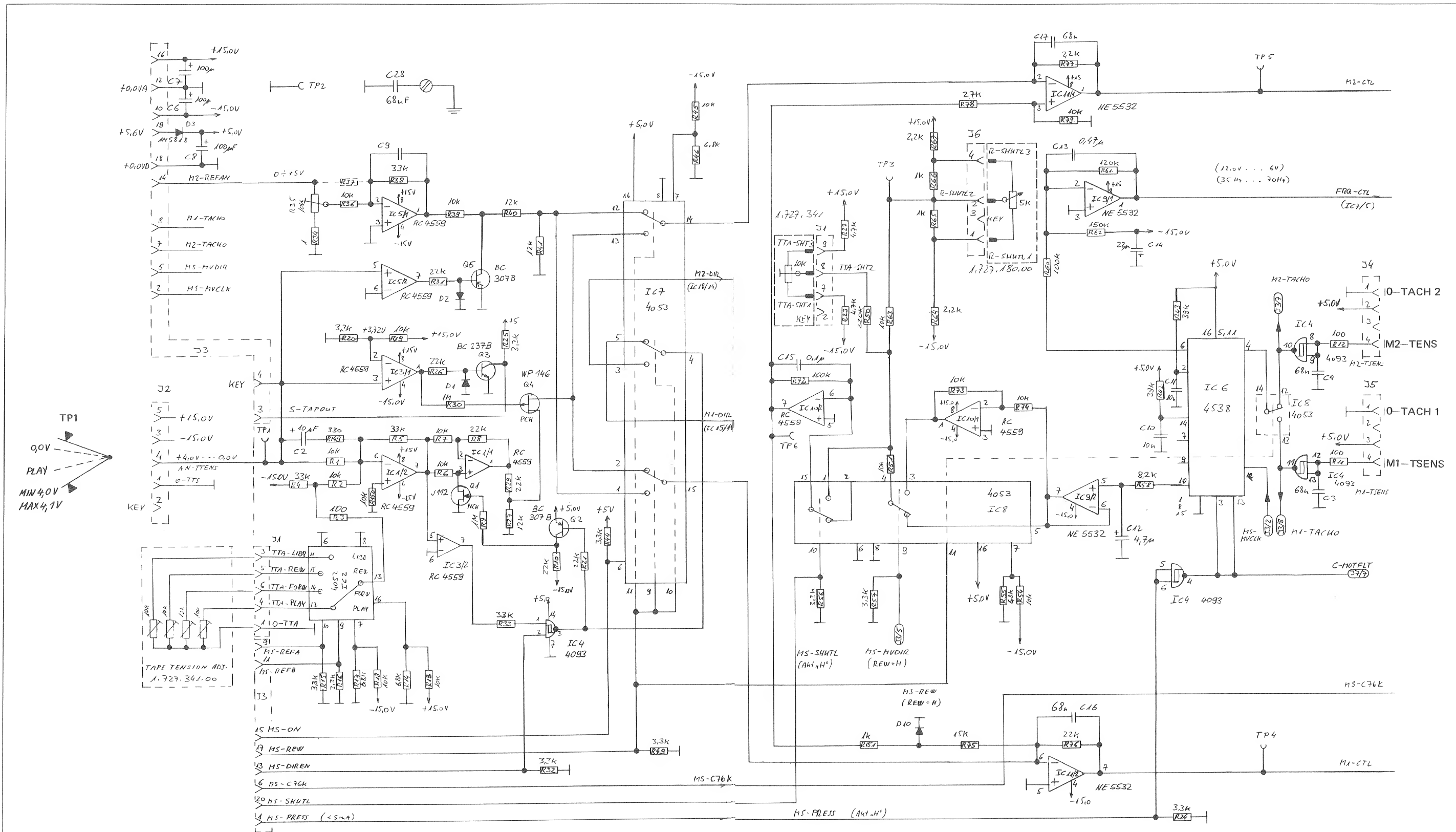


| IND.  | POS.NO. | PART NO.     | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.    | PART NO.   | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---|---------|--------------|-----------|-----------------------------|--------|---|------------|------------|-------------------|-----------------------------|--------|
|   | C....1  | 59.05.2151   | 150 pF    | 2.5%, 50V, PP               |        | (00)  | R....6     | 57.11.4472 | 4.7 kOhm          | 2%, 0.25W, MF               |        |
|   | C....2  | 59.06.0683   | 68 nF     | 10%, 50V, PETP              |        | (01)  | R....6     |            | not used          |                             |        |
|   | C....3  | 59.06.0104   | 0.1 uF    | 10%, 50V, PETP              |        | (00)  | R....7     | 57.11.4472 | 4.7 kOhm          | 2%, 0.25W, MF               |        |
|   | C....4  | 59.32.1221   | 220 pF    | 10%, 50V, Cer               |        | (01)  | R....7     | 57.11.4101 | 100 Ohm           | 2%, 0.25W, MF               |        |
|   | C....5  | 59.06.0102   | 1 nF      | 10%, 50V, PETP              |        | (00)  | R....8     | 57.11.4223 | 22 kOhm           | 2%, 0.25W, MF               |        |
|   | C....6  | 59.22.5220   | 22 uF     | -20%, 25V, E1               |        | (01)  | R....8     | 57.11.4154 | 150 kOhm          | 2%, 0.25W, MF               |        |
|   | C....7  | 59.22.5220   | 22 uF     | -20%, 25V, E1               |        | R....9  | 57.11.4154 | 150 kOhm   | 2%, 0.25W, MF     |                             |        |
|   | C....8  | 59.06.0683   | 68 nF     | 10%, 50V, PETP              |        | R....10   | 57.11.4104 | 100 kOhm   | 2%, 0.25W, MF     |                             |        |
|   | C....9  | 59.22.5220   | 22 uF     | -20%, 25V, EL               |        | R....11   | 58.01.8504 | 500 kOhm   | 10%, 0.5 W, PCerm |                             |        |
| (01)  | C....10 | 59.11.6221   | 220 pF    | 5%, 50V, PC                 |        | R....12   | 57.11.4103 | 10 kOhm    | 2%, 0.25W, MF     |                             |        |
|   | D....1  | 50.04.0125   | 1N4448    | 50V, SI                     |        | R....13   | 57.11.4151 | 150 Ohm    | 2%, 0.25W, MF     |                             |        |
|   | D....2  | 50.04.0127   | BAS 40-02 | BAT 42, BAT 85              |        | R....14   | 57.11.4151 | 150 Ohm    | 2%, 0.25W, MF     |                             |        |
| (00)  | D....3  | 50.04.0127   | BAS 40-02 | BAT 42, BAT 85              |        | R....15   | 57.11.4152 | 1.5 kOhm   | 2%, 0.25W, MF     |                             |        |
| (01)  | D....3  |              | not used  |                             |        | R....16   | 58.01.8103 | 10 kOhm    | 10%, 0.5 W, PCerm |                             |        |
|   | D....4  | 50.04.1112   | 5.1 V     | 5%, 0.4W, Zener             |        | TP....1   | 54.02.0320 |            | Plug 2.8A0.8      |                             |        |
|   | IC....1 | 50.09.0167   | MN74C04N  | CD4069, C-MOS               |        | TP....2   | 54.02.0320 |            | Plug 2.8A0.8      |                             |        |
|   | IC....2 | 50.09.0107   | RC4559    | Dual Op-Amp                 |        | XIC....1  | 53.03.0167 | 14-Pole    | IC-Socket         |                             |        |
|   | J....1  | 54.01.0305   | 5-Pole    | CIS Socket Strip            |        | XIC....2  | 53.03.0166 | 8-Pole     | IC-Socket         |                             |        |
|   | L....1  | 1.810.125.00 |           | Coil                        |        |   |            |            |                   |                             |        |
|   | L....2  | 1.810.125.00 |           | Coil                        |        |   |            |            |                   |                             |        |
|   | MP....1 | 28.21.0050   | 2 pcs     | tubular rivet 2.5x17        |        |   |            |            |                   |                             |        |
|   | MP....2 | 1.727.320.10 | 1 pcs     | No. Label                   |        |   |            |            |                   |                             |        |
|   | MP....3 | 1.727.320.11 | 1 pcs     | TAPE TENSION SENSOR PCB     |        |   |            |            |                   |                             |        |
|   | MP....4 | 43.01.0108   | 1 pcs     | ESE Warning label           |        |   |            |            |                   |                             |        |
|   | Q....1  | 50.03.0436   | BC237B    | BC547B, BC550B              |        |   |            |            |                   |                             |        |
|   | R....1  | 57.11.4152   | 1.5 kOhm  | 2%, 0.25W, MF               |        |   |            |            |                   |                             |        |
|   | R....2  | 57.11.3202   | 2 kOhm    | 2%, 0.25W, MF               |        |   |            |            |                   |                             |        |
|   | R....3  | 57.11.4472   | 4.7 kOhm  | 2%, 0.25W, MF               |        |   |            |            |                   |                             |        |
|   | R....4  | 57.11.4102   | 1 kOhm    | 2%, 0.25W, MF               |        |   |            |            |                   |                             |        |
|   | R....5  | 57.11.3203   | 20 kOhm   | 2%, 0.25W, MF               |        |   |            |            |                   |                             |        |
| S T U D E R (01) 86/10/29 GP TAPE TENSION SENSOR BOARD PL 1.727.320.00 PAGE 1 |         |              |           |                             |        | S T U D E R (01) 86/10/29 GP TAPE TENSION SENSOR BOARD PL 1.727.320.00 PAGE 2 |            |            |                   |                             |        |

## SPOOLING MOTOR CONTROL 1.727.340.21

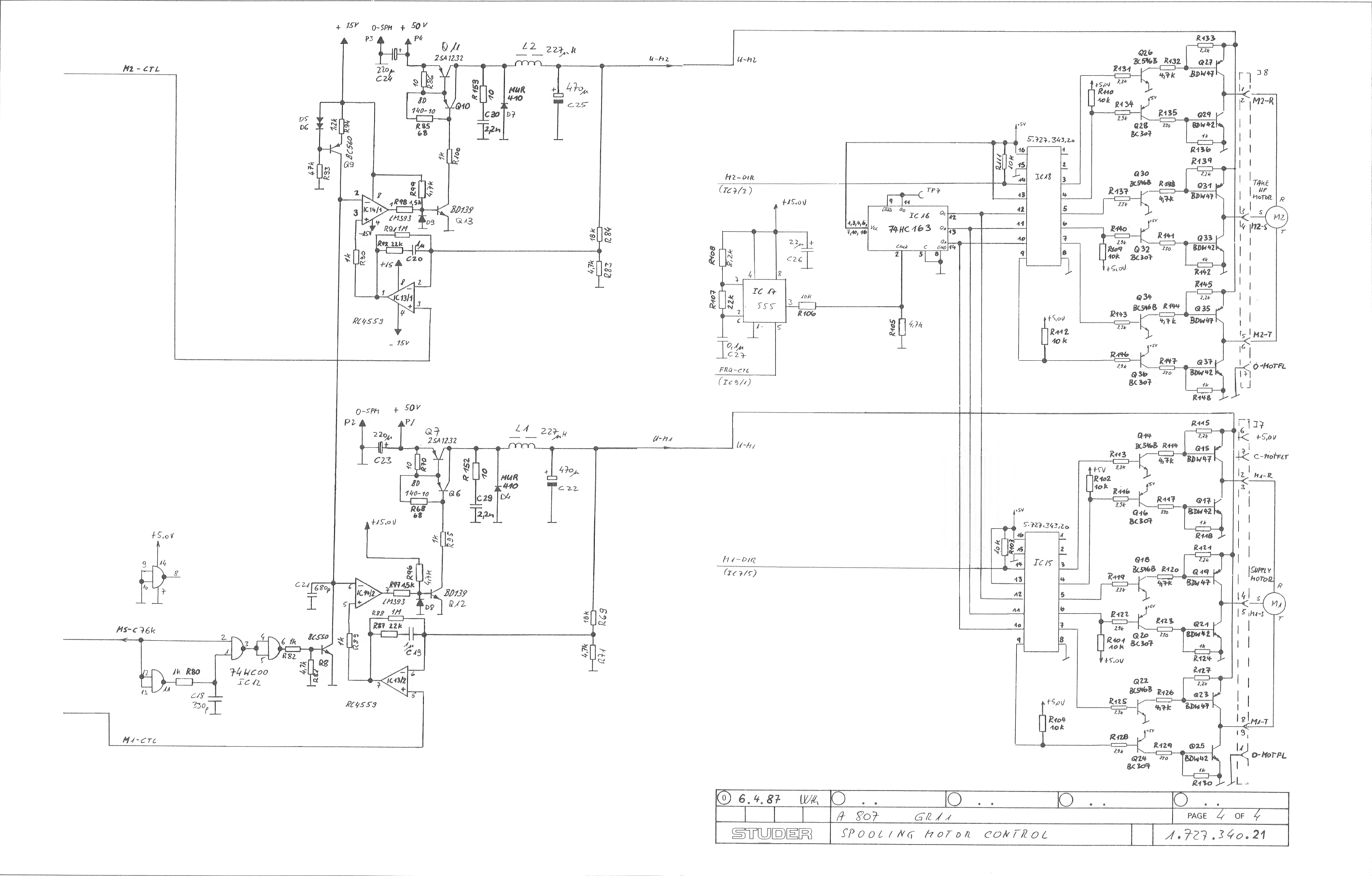
-SHUTTLE CONTROL 1.727.180.00

-TAPE TENSION ADJUST 1.727.341.00

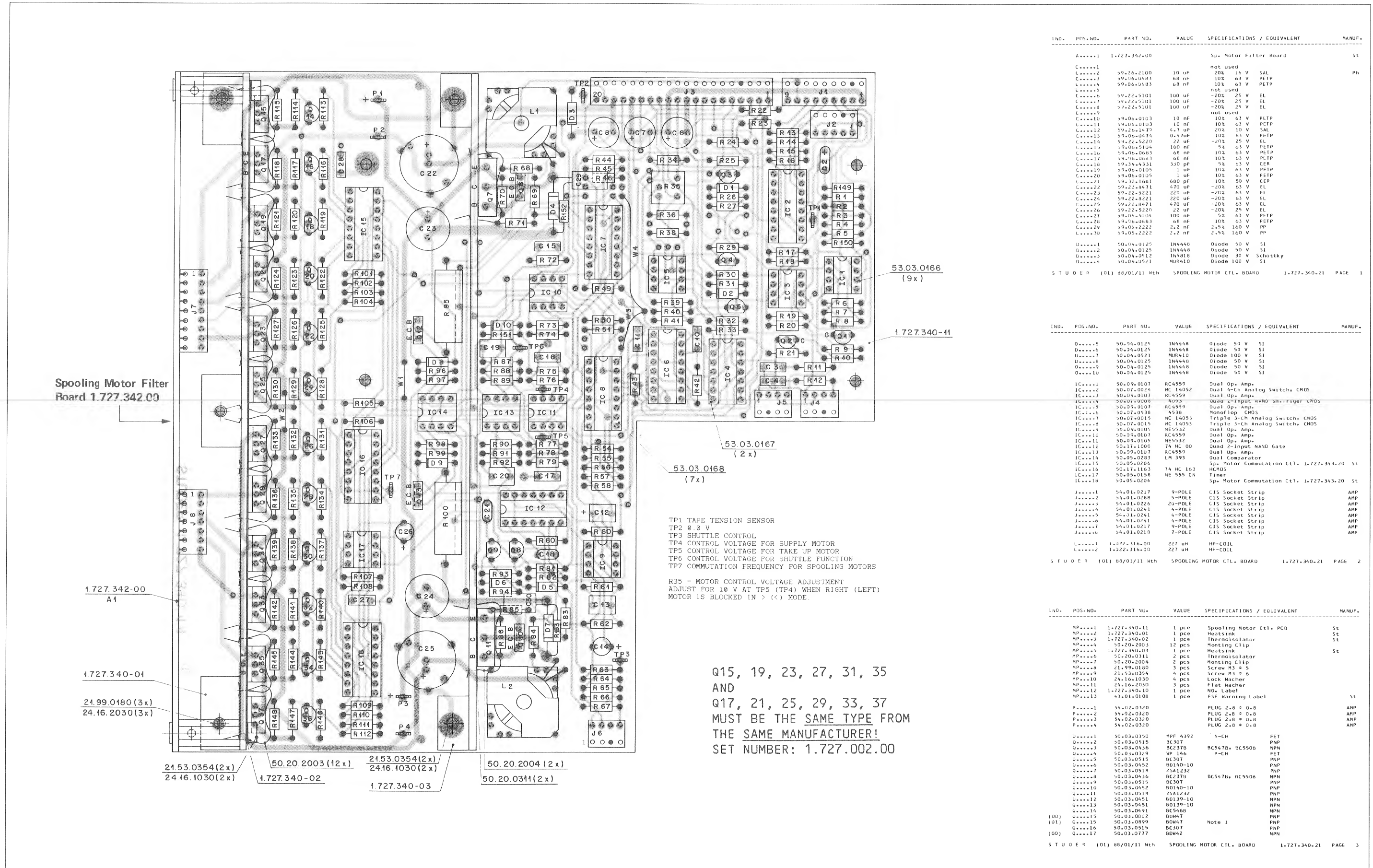


|          |            |                        |              |             |
|----------|------------|------------------------|--------------|-------------|
| ① 6.4.87 | ...        | ...                    | ...          | ...         |
| STUDER   | A 807 GRA1 | SPooling Motor Control | 1.727.340.21 | PAGE 2 OF 4 |

SPOOLING MOTOR CONTROL 1.727.340.21  
-SHUTTLE CONTROL 1.727.180.00  
-TAPE TENSION ADJUST 1.727.341.00



## SPOOLING MOTOR CONTROL 1.727.340.21



SPOOLING MOTOR CONTROL 1.727.340.21

| INO.  | POS.NO. | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF.        | INO.  | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | INO.   | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---|---------|------------|--------|-----------------------------|---------------|---|------------|----------|-------|-----------------------------|--------|--|---------|----------|-------|-----------------------------|--------|
| (01)  | Q....17 | 50-03-0849 | 80W42  | Note 1                      | NPN           | R....80   | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....18 | 50-03-0491 | 8C546B |                             | NPN           | R....91   | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....19 | 50-03-0802 | 80W47  |                             | PNP           | R....82   | 57-11-4107 | 1        | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....19 | 50-03-0899 | 80W47  | Note 1                      | PNP           | R....83   | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....20 | 50-03-0515 | 8C307  |                             | PNP           | R....84   | 57-11-4143 | 18       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....21 | 50-03-0777 | 80W42  |                             | NPN           | R....85   | 57-11-4680 | 68       | Ohm   | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....21 | 50-03-0849 | 80W42  | Note 1                      | NPN           | R....86   | 57-11-4100 | 10       | Ohm   | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....22 | 50-03-0891 | 8C546B |                             | NPN           | R....87   | 57-11-4223 | 22       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....23 | 50-03-0802 | 80W47  |                             | PNP           | R....88   | 57-11-4105 | 1        | MOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....23 | 50-03-0899 | 80W47  | Note 1                      | PNP           | R....89   | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....24 | 50-03-0515 | 8C307  |                             | PNP           | R....90   | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....25 | 50-03-0777 | 80W42  |                             | NPN           | R....91   | 57-11-4105 | 1        | MOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....25 | 50-03-0849 | 80W42  | Note 1                      | NPN           | R....92   | 57-11-4223 | 22       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....26 | 50-03-0482 | 8C546B |                             | PNP           | R....93   | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....27 | 50-03-0802 | 80W47  |                             | PNP           | R....94   | 57-11-4122 | 1-2      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....27 | 50-03-0899 | 80W47  | Note 1                      | PNP           | R....95   | 57-56-4102 | 1        | kOhm  | 5%, 4 W, OR                 |        |  |         |          |       |                             |        |
|   | Q....28 | 50-03-0515 | 8C307  |                             | PNP           | R....96   | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....29 | 50-03-0777 | 80W42  |                             | NPN           | R....97   | 57-11-4152 | 1-5      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....29 | 50-03-0849 | 80W42  | Note 1                      | NPN           | R....98   | 57-11-4152 | 1-5      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....30 | 50-03-0491 | 8C546B |                             | NPN           | R....99   | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....31 | 50-03-0802 | 80W47  |                             | PNP           | R....100  | 57-56-4102 | 1        | kOhm  | 5%, 4 W, OR                 |        |  |         |          |       |                             |        |
| (01)  | Q....31 | 50-03-0899 | 80W47  | Note 1                      | PNP           | R....101  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....32 | 50-03-0515 | 8C307  |                             | PNP           | R....102  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....33 | 50-03-0777 | 80W42  |                             | NPN           | R....103  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....33 | 50-03-0849 | 80W42  | Note 1                      | NPN           | R....104  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....34 | 50-03-0491 | 8C546B |                             | NPN           | R....105  | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....35 | 50-03-0802 | 80W47  |                             | PNP           | R....106  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....35 | 50-03-0899 | 80W47  | Note 1                      | PNP           | R....107  | 57-11-4223 | 22       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | Q....36 | 50-03-0515 | 8C307  |                             | PNP           | R....108  | 57-11-4822 | 8-2      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (00)  | Q....37 | 50-03-0777 | 80W42  |                             | NPN           | R....109  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| (01)  | Q....37 | 50-03-0849 | 80W42  | Note 1                      | NPN           | R....110  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | R....+1 | 57-11-4103 | 10     | kOhm                        | 2%, 0.25W, MF | R....111  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | R....+2 | 57-11-4103 | 10     | kOhm                        | 2%, 0.25W, MF | R....112  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | R....+3 | 57-11-4101 | 100    | Ohm                         | 2%, 0.25W, MF | R....113  | 57-11-4332 | 3-3      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | R....+4 | 57-11-4333 | 33     | kOhm                        | 2%, 0.25W, MF | R....114  | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   | R....+5 | 57-11-4333 | 33     | kOhm                        | 2%, 0.25W, MF | R....115  | 57-11-4222 | 2-2      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
|   |         |            |        |                             |               | R....116  | 57-11-4392 | 3-9      | kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| S T U D E R (01) 88/01/11 Mch SPOOLING MOTOR CTL. BOARD 1.727.340.21 PAGE 4 |         |            |        |                             |               | S T U D E R (01) 88/01/11 Mch SPOOLING MOTOR CTL. BOARD 1.727.340.21 PAGE 7 |            |          |       |                             |        | S T U D E R (01) 88/01/11 Mch SPOOLING MOTOR CTL. BOARD 1.727.340.21 PAGE 10 |         |          |       |                             |        |

Note 1: Q15, 19, 23, 27, 31 and 35  
and  
Q17, 21, 25, 29, 33 and 37  
must be the same type from the same manufacturer.

EL=Electrolytic, PEIP=Polyester, PP=Polypropylene, Si=Silicon,  
MF=Metal Film, PMG=Cermet, CER=Ceramic, SAL=Solid Aluminium  
MANUFACTURER: AMP=AMP, Ph=Philips, St=Studer

Orig 87/04/06 (01) 88/01/11

| INO.  | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | INO.  | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---|------------|----------|----------|-----------------------------|--------|---|------------|----------|-------|-----------------------------|--------|
| R....+6   | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....117  | 57-11-4331 | 330      | Ohm   | 2%, 0.25W, MF               |        |
| R....+7   | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....118  | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |
| R....+8   | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        | R....119  | 57-11-4332 | 3-3      | kOhm  | 2%, 0.25W, MF               |        |
| R....+9   | 57-11-4105 | 1        | MOhm     | 2%, 0.25W, MF               |        | R....120  | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |
| R....+10  | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        | R....121  | 57-11-4222 | 2-2      | kOhm  | 2%, 0.25W, MF               |        |
| R....+11  | 57-11-4101 | 100      | Ohm      | 2%, 0.25W, MF               |        | R....122  | 57-11-4392 | 3-9      | kOhm  | 2%, 0.25W, MF               |        |
| R....+12  | 57-11-4101 | 100      | Ohm      | 2%, 0.25W, MF               |        | R....123  | 57-11-4331 | 330      | Ohm   | 2%, 0.25W, MF               |        |
| R....+13  | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....124  | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |
| R....+14  | 57-11-4682 | 6-8      | kOhm     | 2%, 0.25W, MF               |        | R....125  | 57-11-4332 | 3-3      | kOhm  | 2%, 0.25W, MF               |        |
| R....+15  | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | R....126  | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |
| R....+16  | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | R....127  | 57-11-4222 | 2-2      | kOhm  | 2%, 0.25W, MF               |        |
| R....+17  | 57-11-4682 | 6-8      | kOhm     | 2%, 0.25W, MF               |        | R....128  | 57-11-4392 | 3-9      | kOhm  | 2%, 0.25W, MF               |        |
| R....+18  | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....129  | 57-11-4330 | 330      | Ohm   | 2%, 0.25W, MF               |        |
| R....+19  | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....130  | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |
| R....+20  | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | R....131  | 57-11-4332 | 3-3      | kOhm  | 2%, 0.25W, MF               |        |
| R....+21  | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        | R....132  | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |
| R....+22  | 57-11-4472 | 4-7      | kOhm     | 2%, 0.25W, MF               |        | R....133  | 57-11-4222 | 2-2      | kOhm  | 2%, 0.25W, MF               |        |
| R....+23  | 57-11-4472 | 4-7      | kOhm     | 2%, 0.25W, MF               |        | R....134  | 57-11-4392 | 3-9      | kOhm  | 2%, 0.25W, MF               |        |
| R....+24  | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | R....135  | 57-11-4331 | 330      | Ohm   | 2%, 0.25W, MF               |        |
| R....+25  | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | R....136  | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |
| R....+26  | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        | R....137  | 57-11-4332 | 3-3      | kOhm  | 2%, 0.25W, MF               |        |
| R....+27  | 57-11-4123 | 12       | kOhm     | 2%, 0.25W, MF               |        | R....138  | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |
| R....+28  |            |          | not used |                             |        | R....139  | 57-11-4222 | 2-2      | kOhm  | 2%, 0.25W, MF               |        |
| R....+29  | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        | R....140  | 57-11-4392 | 3-9      | kOhm  | 2%, 0.25W, MF               |        |
| R....+30  | 57-11-4105 | 1        | MOhm     | 2%, 0.25W, MF               |        | R....141  | 57-11-4331 | 330      | Ohm   | 2%, 0.25W, MF               |        |
| R....+31  | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        | R....142  | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |
| R....+32  | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | R....143  | 57-11-4332 | 3-3      | kOhm  | 2%, 0.25W, MF               |        |
| R....+33  | 57-11-4333 | 33       | kOhm     | 2%, 0.25W, MF               |        | R....144  | 57-11-4472 | 4-7      | kOhm  | 2%, 0.25W, MF               |        |
| R....+34  | 57-11-4109 | 1        | Ohm      | 2%, 0.25W, MF               |        | R....145  | 57-11-4222 | 2-2      | kOhm  | 2%, 0.25W, MF               |        |
| R....+35  | 58-01-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....146  | 57-11-4392 | 3-9      | kOhm  | 2%, 0.25W, MF               |        |
| R....+36  | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....147  | 57-11-4331 | 330      | Ohm   | 2%, 0.25W, MF               |        |
| R....+37  |            |          | not used |                             |        | R....148  | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |
| R....+38  | 57-11-4333 | 33       | kOhm     | 2%, 0.25W, MF               |        | R....149  | 57-11-4331 | 330      | Ohm   | 2%, 0.25W, MF               |        |
| R....+39  | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | R....150  | 57-11-4103 | 10       | kOhm  | 2%, 0.25W, MF               |        |
| R....+40  | 57-11-4123 | 12       | kOhm     | 2%, 0.25W, MF               |        | R....151  | 57-11-4102 | 1        | kOhm  | 2%, 0.25W, MF               |        |
| R....+41  | 57-11-4123 | 12       | kOhm     | 2%, 0.25W, MF               |        | R....152  | 57-11-4100 | 10       | Ohm   | 2%, 0.25W, MF               |        |
| R....+42  | 57-11-4393 | 39       | kOhm     | 2%, 0.25W, MF               |        | R....153  | 57-11-4100 | 10       | Ohm   | 2%, 0.25W, MF               |        |
| S T U D E R (01) 88/01/11 Mch SPOOLING MOTOR CTL. BOARD 1.727.340.21 PAGE 5 |            |          |          |                             |        | S T U D E R (01) 88/01/11 Mch SPOOLING MOTOR CTL. BOARD 1.727.340.21 PAGE 8 |            |          |       |                             |        |

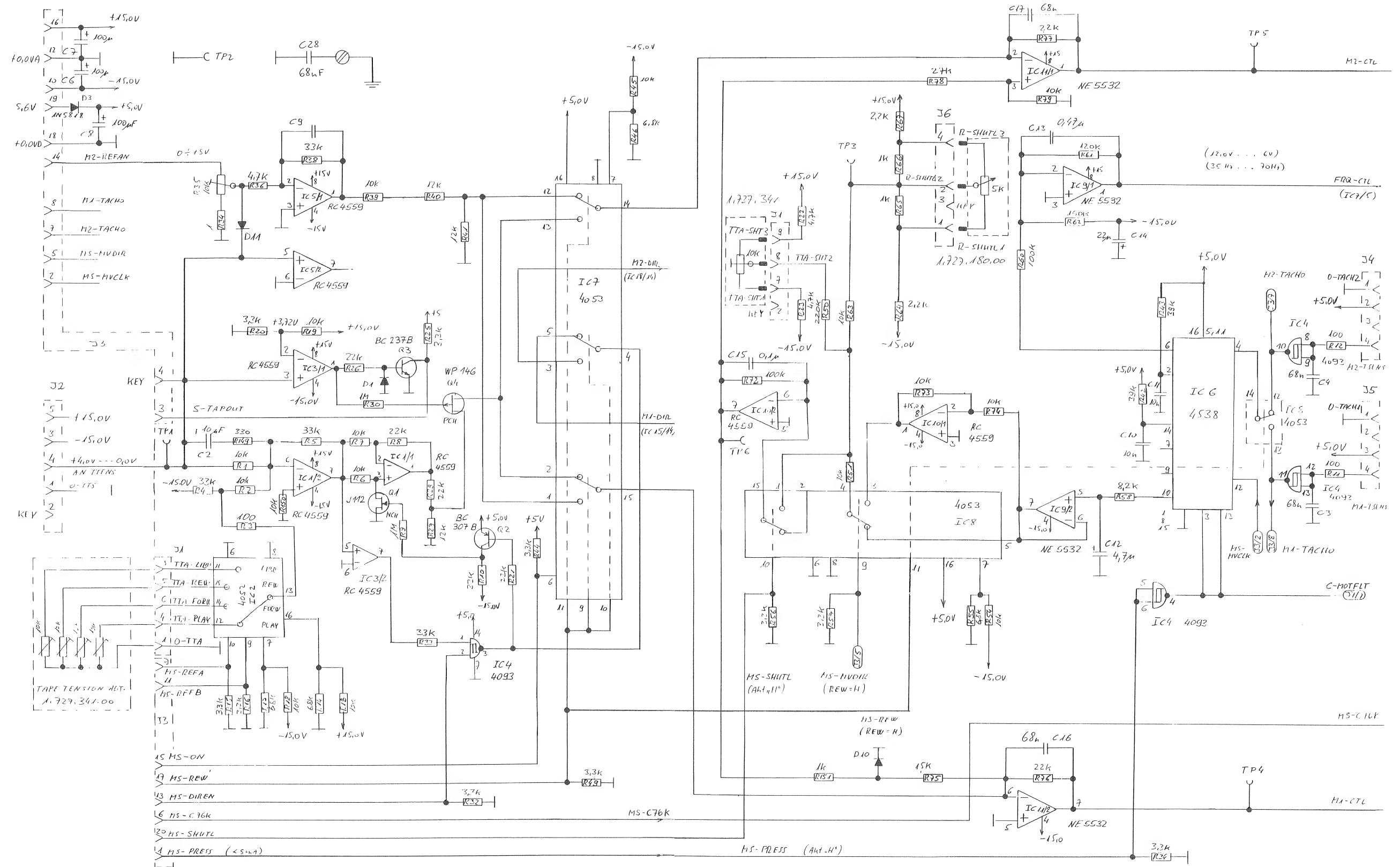
| INO.    | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | INO.       | POS.NO.      | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|----------|-----------------------------|--------|------------|--------------|----------|-------|-----------------------------|--------|
| R....43 | 57-11-4393 | 39       | kOhm     | 2%, 0.25W, MF               |        | TP....+1   | 54-02-0320   |          |       | Test Point                  | AMP    |
| R....44 | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | TP....+2   | 54-02-0320   |          |       | Test Point                  | AMP    |
| R....45 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | TP....+3   | 54-02-0320   |          |       | Test Point                  | AMP    |
| R....46 | 57-11-4682 | 6-8      | kOhm     | 2%, 0.25W, MF               |        | TP....+4   | 54-02-0320   |          |       | Test Point                  | AMP    |
| R....47 |            |          | not used |                             |        | TP....+5   | 54-02-0320   |          |       | Test Point                  | AMP    |
| R....48 |            |          | not used |                             |        | TP....+6   | 54-02-0320   |          |       | Test Point                  | AMP    |
| R....49 | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | TP....+7   | 54-02-0320   |          |       | Test Point                  | AMP    |
| R....50 | 57-11-4224 | 220      | kOhm     | 2%, 0.25W, MF               |        | W....+1    | 64-01-0106   |          |       | Wire Bridge                 |        |
| R....51 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | W....+2    | 64-01-0106   |          |       | Wire Bridge                 |        |
| R....52 |            |          | not used |                             |        | W....+3    | 1-010-107-64 |          |       | Wire Bridge                 |        |
| R....53 |            |          | not used |                             |        | W....+4    | 1-010-109-64 |          |       | Wire Bridge                 |        |
| R....54 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | XIC....+1  | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....55 | 57-11-4682 | 6-8      | kOhm     | 2%, 0.25W, MF               |        | XIC....+2  | 53-03-0168   | 16       | Pole  | IC Socket                   |        |
| R....56 | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | XIC....+3  | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....57 | 57-11-4332 | 3-3      | kOhm     | 2%, 0.25W, MF               |        | XIC....+4  | 53-03-0167   | 14       | Pole  | IC Socket                   |        |
| R....58 | 57-11-4822 | 8-2      | kOhm     | 2%, 0.25W, MF               |        | XIC....+5  | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....59 |            |          | not used |                             |        | XIC....+6  | 53-03-0168   | 16       | Pole  | IC Socket                   |        |
| R....60 | 57-11-4104 | 100      | kOhm     | 2%, 0.25W, MF               |        | XIC....+7  | 53-03-0168   | 16       | Pole  | IC Socket                   |        |
| R....61 | 57-11-4124 | 120      | kOhm     | 2%, 0.25W, MF               |        | XIC....+8  | 53-03-0168   | 16       | Pole  | IC Socket                   |        |
| R....62 | 57-11-4154 | 150      | kOhm     | 2%, 0.25W, MF               |        | XIC....+9  | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....63 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        | XIC....+10 | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....64 | 57-11-4222 | 2-2      | kOhm     | 2%, 0.25W, MF               |        | XIC....+11 | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....65 | 57-11-4102 | 1        | kOhm     | 2%, 0.25W, MF               |        | XIC....+12 | 53-03-0167   | 14       | Pole  | IC Socket                   |        |
| R....66 | 57-11-4102 | 1        | kOhm     | 2%, 0.25W, MF               |        | XIC....+13 | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....67 | 57-11-4222 | 2-2      | kOhm     | 2%, 0.25W, MF               |        | XIC....+14 | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....68 | 57-11-4680 | 68       | Ohm      | 2%, 0.25W, MF               |        | XIC....+15 | 53-03-0168   | 16       | Pole  | IC Socket                   |        |
| R....69 | 57-11-4183 | 183      | Ohm      | 2%, 0.25W, MF               |        | XIC....+16 | 53-03-0168   | 16       | Pole  | IC Socket                   |        |
| R....70 | 57-11-4103 | 10       | Ohm      | 2%, 0.25W, MF               |        | XIC....+17 | 53-03-0166   | 8        | Pole  | IC Socket                   |        |
| R....71 | 57-11-4472 | 4-7      | kOhm     | 2%, 0.25W, MF               |        | XIC....+18 | 53-03-0168   | 16       | Pole  | IC Socket                   |        |
| R....72 | 57-11-4104 | 100      | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |
| R....73 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |
| R....74 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |
| R....75 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |
| R....76 | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |
| R....77 | 57-11-4223 | 22       | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |
| R....78 | 57-11-4273 | 27       | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |
| R....79 | 57-11-4103 | 10       | kOhm     | 2%, 0.25W, MF               |        |            |              |          |       |                             |        |



SPOOLING MOTOR CONTROL 1.727.340.22

-SHUTTLE CONTROL 1.727.180.00

-TAPE TENSION ADJUST 1.727.341.00

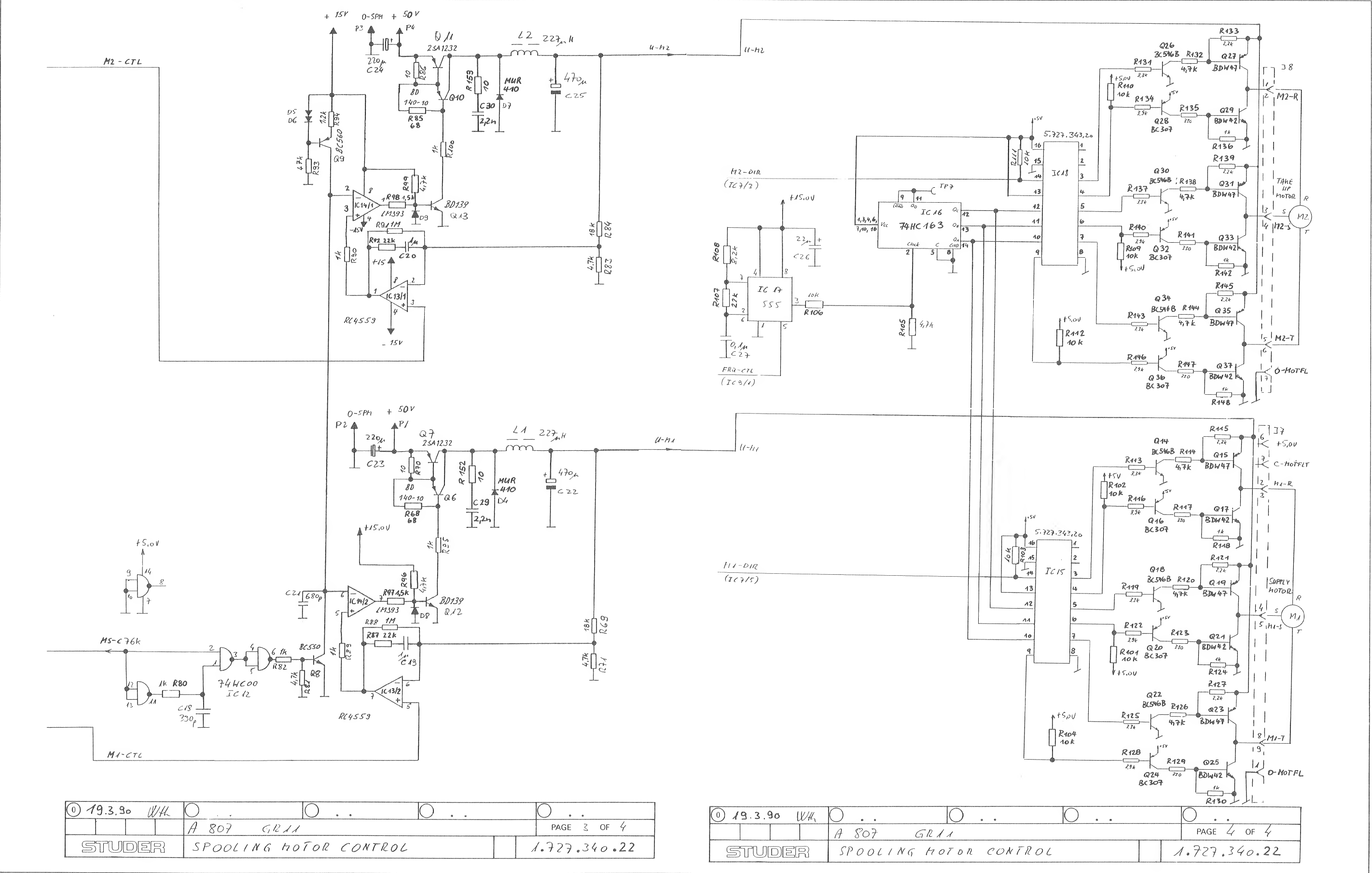


|         |                        |     |     |              |     |
|---------|------------------------|-----|-----|--------------|-----|
| 19.3.90 | WHL                    | ... | ... | ...          | ... |
| A 807   | GRA1                   |     |     | PAGE 1 OF 4  |     |
| STUDER  | SPOOLING MOTOR CONTROL |     |     | 1.727.340.22 |     |

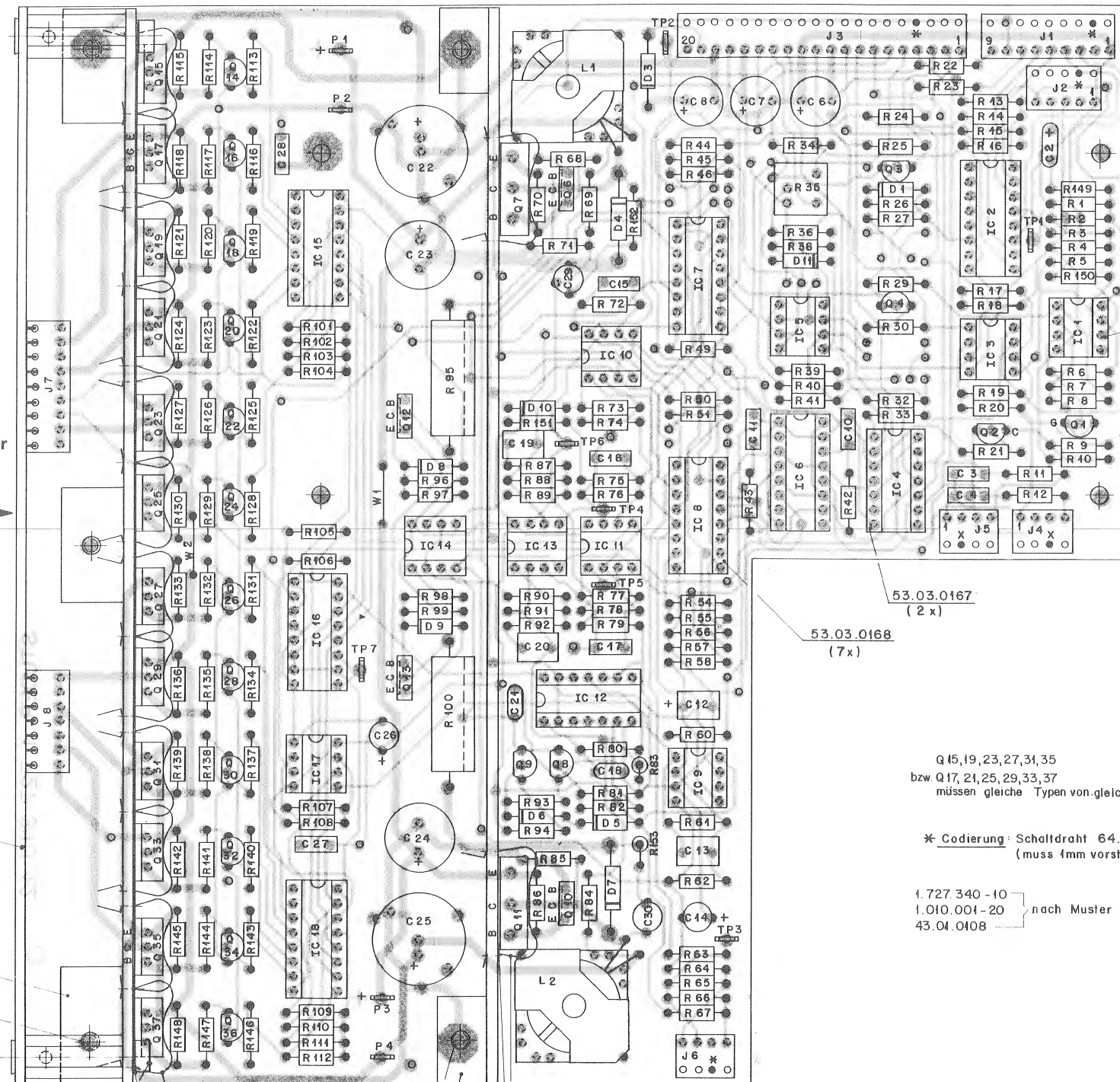
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|---------|------------------------|-----|-----|--------------|-----|
| 19.3.90 | WHL                    | ... | ... | ...          | ... |
| A 807   | GRA1                   |     |     | PAGE 2 OF 4  |     |
| STUDER  | SPOOLING MOTOR CONTROL |     |     | 1.727.340.22 |     |



SPOOLING MOTOR CONTROL 1.727.340.22  
-SHUTTLE CONTROL 1.727.180.00  
-TAPE TENSION ADJUST 1.727.341.00



## SPOOLING MOTOR CONTROL 1.727.340.22

Spooling Motor Filter  
Board 1.727.342.001.727.342-00  
A11.727.340-01  
24.99.0180 (3x)  
24.16.2030 (3x)24.53.0354 (2x)  
24.16.1030 (2x)50.20.2003 (12x)  
24.16.2030 (2x)  
1.727.340-0224.53.0354 (2x)  
24.16.2030 (2x)  
1.727.340-0350.20.2004 (2x)  
50.20.0311 (2x)53.03.0166  
(9x)

1.727.340-12

① DM

Q15,19,23,27,31,35  
bzw Q17,21,25,29,33,37  
müssen gleiche Typen von gleichen Lieferant sein.\* Codierung: Schottdraht 64.01.0408 Ø0,8x8mm  
(muss 1mm vorstehen)1.727.340-10  
1.010.004-20  
43.04.0408  
nach Muster geklebt

| IND.     | POS.NO. | PART NO.     | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|--------------|---------|-----------------------------|--------|
| A.....1  |         | 1.727.342.00 |         | Sp. Motor Filter Board      | St     |
| C.....1  |         | 59.26.2100   | 10 nF   | not used                    | Ph     |
| C.....2  |         | 59.06.0683   | 68 nF   | 20% 16 V SAL                |        |
| C.....3  |         | 59.06.0683   | 68 nF   | 10% 63 V PETP               |        |
| C.....4  |         | 59.06.0683   | 68 nF   | 10% 63 V PETP               |        |
| C.....5  |         | 59.22.5101   | 100 uF  | not used                    |        |
| C.....6  |         | 59.22.5101   | 100 uF  | -20% 25 V EL                |        |
| C.....7  |         | 59.22.5101   | 100 uF  | -20% 25 V EL                |        |
| C.....8  |         | 59.22.5101   | 100 uF  | -20% 25 V EL                |        |
| C.....9  |         | 59.06.0103   | 10 nF   | not used                    |        |
| C.....10 |         | 59.06.0103   | 10 nF   | 10% 63 V PETP               |        |
| C.....11 |         | 59.06.0103   | 10 nF   | 10% 63 V PETP               |        |
| C.....12 |         | 59.26.1479   | 4.7 uF  | 20% 10 V SAL                |        |
| C.....13 |         | 59.06.0474   | 0.47 uF | 10% 63 V PETP               |        |
| C.....14 |         | 59.22.5220   | 22 uF   | -20% 25 V EL                |        |
| C.....15 |         | 59.06.5104   | 100 nF  | 5% 63 V PETP                |        |
| C.....16 |         | 59.06.0683   | 68 nF   | 10% 63 V PETP               |        |
| C.....17 |         | 59.06.0683   | 68 nF   | 10% 63 V PETP               |        |
| C.....18 |         | 59.34.4331   | 330 pF  | 5% 63 V CER                 |        |
| C.....19 |         | 59.06.0105   | 1 uF    | 10% 63 V PETP               |        |
| C.....20 |         | 59.06.0105   | 1 uF    | 10% 63 V PETP               |        |
| C.....21 |         | 59.32.1681   | 680 pF  | 10% 50 V CER                |        |
| C.....22 |         | 59.22.8471   | 470 uF  | -20% 63 V EL                |        |
| C.....23 |         | 59.22.8221   | 220 uF  | -20% 63 V EL                |        |
| C.....24 |         | 59.22.8221   | 220 uF  | -20% 63 V EL                |        |
| C.....25 |         | 59.22.8471   | 470 uF  | -20% 63 V EL                |        |
| C.....26 |         | 59.22.5220   | 22 uF   | -20% 25 V EL                |        |
| C.....27 |         | 59.06.5104   | 100 nF  | 5% 63 V PETP                |        |
| C.....28 |         | 59.06.0683   | 68 nF   | 10% 63 V PETP               |        |
| C.....29 |         | 59.05.2222   | 2.2 nF  | 2.5% 160 V PP               |        |
| C.....30 |         | 59.05.2222   | 2.2 nF  | 2.5% 160 V PP               |        |
| D.....1  |         | 50.04.0125   | 1N4448  | Diode 50 V SI               |        |
| D.....2  |         | 50.04.0512   | 1N5818  | Diode 30 V Schottky         |        |
| D.....3  |         | 50.04.0521   | MUR410  | Diode 100 V SI              |        |

STUDER (00) 89/12/19 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.22 PAGE 1

| IND.      | POS.NO. | PART NO.     | VALUE     | SPECIFICATIONS / EQUIVALENT             | MANUF. |
|-----------|---------|--------------|-----------|---|--------|
| D.....5   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....6   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....7   |         | 50.04.0521   | MUR410    | Diode 100 V SI                          |        |
| D.....8   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....9   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....10  |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....11  |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| IC.....1  |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....2  |         | 50.07.0024   | MC 14052  | Dual 4-Ch Analog Switch, CMOS           |        |
| IC.....3  |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....4  |         | 50.07.0008   | 4093      | Quad 2-Input NAND Sm.Trigger CMOS       |        |
| IC.....5  |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....6  |         | 50.07.0598   | 4590      | Monotrip CMOS                           |        |
| IC.....7  |         | 50.07.0015   | MC 14053  | Triple 3-Ch Analog Switch, CMOS         |        |
| IC.....8  |         | 50.07.0015   | MC 14053  | Triple 3-Ch Analog Switch, CMOS         |        |
| IC.....9  |         | 50.09.0105   | NE5532    | Dual Op. Amp.                           |        |
| IC.....10 |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....11 |         | 50.09.0105   | NE5532    | Dual Op. Amp.                           |        |
| IC.....12 |         | 50.17.1000   | 74 HC 00  | Quad 2-Input NAND Gate                  |        |
| IC.....13 |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....14 |         | 50.05.0283   | LH 393    | Dual Comparator                         |        |
| IC.....15 |         | 50.05.0206   | 74 HC 163 | Sp. Motor Commutation Ctl. 1.727.343.20 | St     |
| IC.....16 |         | 50.17.1163   | NE 555 CM | Timer                                   |        |
| IC.....17 |         | 50.05.0158   | 74 HC 163 | Sp. Motor Commutation Ctl. 1.727.343.20 | St     |
| IC.....18 |         | 50.05.0206   | 74 HC 163 | Sp. Motor Commutation Ctl. 1.727.343.20 | St     |
| J.....1   |         | 54.01.0217   | 9-POLE    | CIS Socket Strip                        | AMP    |
| J.....2   |         | 54.01.0208   | 5-POLE    | CIS Socket Strip                        | AMP    |
| J.....3   |         | 54.01.0226   | 20-POLE   | CIS Socket Strip                        | AMP    |
| J.....4   |         | 54.01.0241   | 4-POLE    | CIS Socket Strip                        | AMP    |
| J.....5   |         | 54.01.0241   | 4-POLE    | CIS Socket Strip                        | AMP    |
| J.....6   |         | 54.01.0241   | 4-POLE    | CIS Socket Strip                        | AMP    |
| J.....7   |         | 54.01.0217   | 9-POLE    | CIS Socket Strip                        | AMP    |
| J.....8   |         | 54.01.0218   | 7-POLE    | CIS Socket Strip                        | AMP    |
| L.....1   |         | 1.022.316.00 | 227 uH    | HF-COIL                                 |        |

STUDER (00) 89/12/19 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.22 PAGE 2

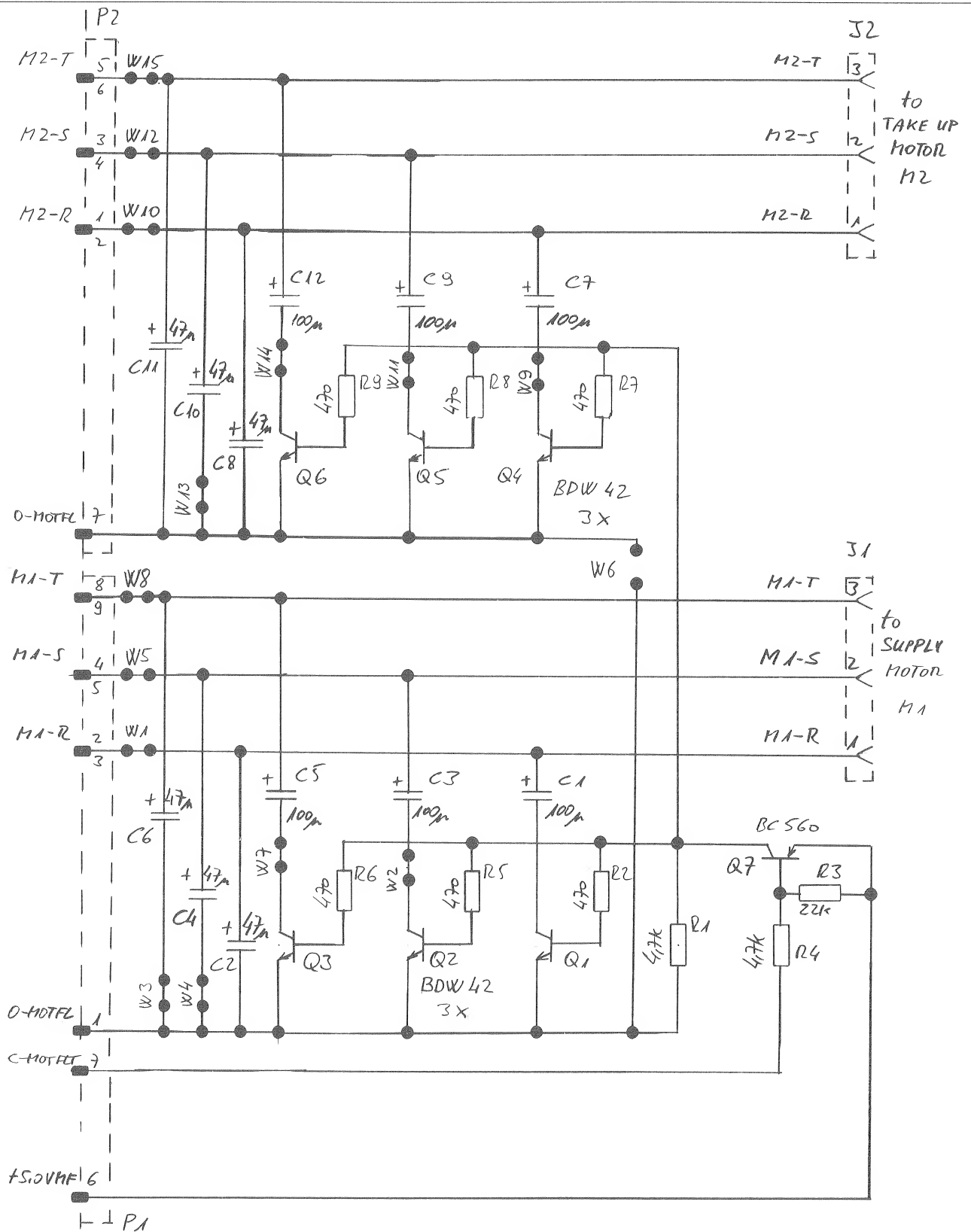
| IND.      | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|---------|--------------|----------|-----------------------------|--------|
| L.....2   |         | 1.022.316.00 | 227 uH   | HF-COIL                     |        |
| MP.....1  |         | 1.727.340.12 | 1 pce    | Spooling Motor Ctl. PCB     | St     |
| MP.....2  |         | 1.727.340.01 | 1 pce    | Heatink                     | St     |
| MP.....3  |         | 1.727.340.02 | 1 pce    | Thermoisolator              | St     |
| MP.....4  |         | 50.20.2003   | 12 pce   | Mounting Clip               |        |
| MP.....5  |         | 1.727.340.03 | 1 pce    | Heatink                     | St     |
| MP.....6  |         | 50.20.0311   | 2 pce    | Thermoisolator              |        |
| MP.....7  |         | 50.20.2004   | 2 pce    | Mounting Clip               |        |
| MP.....8  |         | 21.99.0180   | 3 pce    | Screw M3 x 5                |        |
| MP.....9  |         | 21.53.0354   | 4 pce    | Screw M3 x 6                |        |
| MP.....10 |         | 24.16.1030   | 2 pce    | Fin Lock Washer             |        |
| MP.....11 |         | 24.16.2030   | 5 pce    | Serral Lock Washer          |        |
| MP.....12 |         | 1.727.340.10 | 1 pce    | NO Label                    |        |
| MP.....13 |         | 43.01.0108   | 1 pce    | ESE Warning Label           |        |
| P.....1   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| P.....2   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| P.....3   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| P.....4   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| Q.....1   |         | 50.03.0350   | MPF 4392 | N-CH                        | FET    |
| Q.....2   |         | 50.03.0515   | BC307    |                             | PNP    |
| Q.....3   |         | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |
| Q.....4   |         | 50.03.0329   | WP 146   | P-CH                        | FET    |
| Q.....5   |         |              |          | not used                    |        |
| Q.....6   |         | 50.03.0452   | BD140-10 |                             | PNP    |
| Q.....7   |         | 50.03.0518   | 2SA1232  |                             | PNP    |
| Q.....8   |         | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |
| Q.....9   |         | 50.03.0515   | BC307    |                             | PNP    |
| Q.....10  |         | 50.03.0452   | BD140-10 |                             | PNP    |
| Q.....11  |         | 50.03.0518   | 2SA1232  |                             | PNP    |
| Q.....12  |         | 50.03.0451   | BD139-10 |                             | NPN    |
| Q.....13  |         | 50.03.0451   | BD139-10 |                             | NPN    |
| Q.....14  |         | 50.03.0491   | BC546B   |                             | NPN    |
| Q.....15  |         | 50.03.0899   | BDW47    |                             | PNP    |
| Q.....16  |         | 50.03.0515   | BC307    | Note 1                      | PNP    |

STUDER (00) 89/12/19 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.22 PAGE 3

## SPOOLING MOTOR CONTROL 1.727.340.22

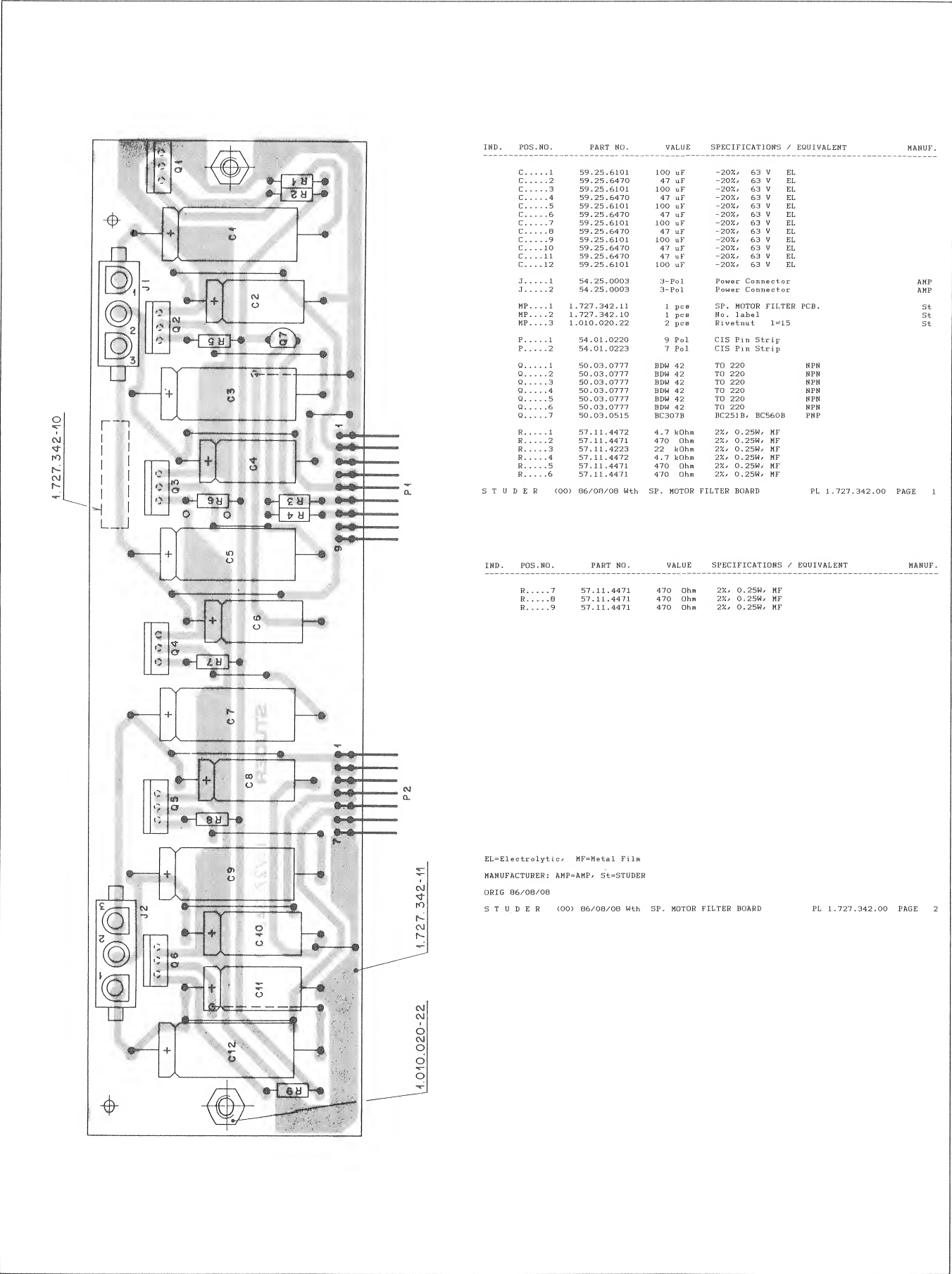
| IND.   | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|------------|----------|----------|-----------------------------|--------|--|------------|----------|-------------|-----------------------------|--------|
| Q....17  | 50.03.0849 | BDW42    | Note 1   | NPN                         |        | R....90  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| Q....18  | 50.03.0491 | BC546B   |          | NPN                         |        | R....91  | 57.11.3105 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| Q....19  | 50.03.0899 | BDW47    | Note 1   | PNP                         |        | R....92  | 57.11.3223 | 22       | kOhm        | 1%, 0.25W, MF               |        |
| Q....20  | 50.03.0515 | BC307    |          | PNP                         |        | R....93  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| Q....21  | 50.03.0849 | BDW42    | Note 1   | NPN                         |        | R....94  | 57.11.3122 | 1.2      | kOhm        | 1%, 0.25W, MF               |        |
| Q....22  | 50.03.0491 | BC546B   |          | NPN                         |        | R....95  | 57.56.4102 | 1        | kOhm        | 5%, 4 W, DR                 |        |
| Q....23  | 50.03.0899 | BDW47    | Note 1   | PNP                         |        | R....96  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| Q....24  | 50.03.0515 | BC307    |          | PNP                         |        | R....97  | 57.11.3152 | 1.5      | kOhm        | 1%, 0.25W, MF               |        |
| Q....25  | 50.03.0849 | BDW42    | Note 1   | NPN                         |        | R....98  | 57.11.3152 | 1.5      | kOhm        | 1%, 0.25W, MF               |        |
| Q....26  | 50.03.0491 | BC546B   |          | NPN                         |        | R....99  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| Q....27  | 50.03.0899 | BDW47    | Note 1   | PNP                         |        | R...100  | 57.56.4102 | 1        | kOhm        | 5%, 4 W, DR                 |        |
| Q....28  | 50.03.0515 | BC307    |          | PNP                         |        | R...101  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| Q....29  | 50.03.0849 | BDW42    | Note 1   | NPN                         |        | R...102  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| Q....30  | 50.03.0491 | BC546B   |          | NPN                         |        | R...103  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| Q....31  | 50.03.0899 | BDW47    | Note 1   | PNP                         |        | R...104  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| Q....32  | 50.03.0515 | BC307    |          | PNP                         |        | R...105  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| Q....33  | 50.03.0849 | BDW42    | Note 1   | NPN                         |        | R...106  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| Q....34  | 50.03.0491 | BC546B   |          | NPN                         |        | R...107  | 57.11.3223 | 22       | kOhm        | 1%, 0.25W, MF               |        |
| Q....35  | 50.03.0899 | BDW47    | Note 1   | PNP                         |        | R...108  | 57.11.3822 | 8.2      | kOhm        | 1%, 0.25W, MF               |        |
| Q....36  | 50.03.0515 | BC307    |          | PNP                         |        | R...109  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| Q....37  | 50.03.0849 | BDW42    | Note 1   | NPN                         |        | R...110  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| R....1   | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...111  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| R....2   | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...112  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| R....3   | 57.11.3101 | 100      | Ohm      | 1%, 0.25W, MF               |        | R...113  | 57.11.3332 | 3.3      | kOhm        | 1%, 0.25W, MF               |        |
| R....4   | 57.11.3333 | 33       | kOhm     | 1%, 0.25W, MF               |        | R...114  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| R....5   | 57.11.3333 | 33       | kOhm     | 1%, 0.25W, MF               |        | R...115  | 57.11.3222 | 2.2      | kOhm        | 1%, 0.25W, MF               |        |
| R....6   | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...116  | 57.11.3392 | 3.9      | kOhm        | 1%, 0.25W, MF               |        |
| R....7   | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...117  | 57.11.3331 | 330      | Ohm         | 1%, 0.25W, MF               |        |
| R....8   | 57.11.3223 | 22       | kOhm     | 1%, 0.25W, MF               |        | R...118  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| R....9   | 57.11.3105 | 1        | MOhm     | 1%, 0.25W, MF               |        | R...119  | 57.11.3392 | 3.3      | kOhm        | 1%, 0.25W, MF               |        |
| R...10   | 57.11.3223 | 22       | kOhm     | 1%, 0.25W, MF               |        | R...120  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| R...11   | 57.11.3101 | 100      | Ohm      | 1%, 0.25W, MF               |        | R...121  | 57.11.3222 | 2.2      | kOhm        | 1%, 0.25W, MF               |        |
| R...12   | 57.11.3101 | 100      | Ohm      | 1%, 0.25W, MF               |        | R...122  | 57.11.3392 | 3.9      | kOhm        | 1%, 0.25W, MF               |        |
| R...13   | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...123  | 57.11.3331 | 330      | Ohm         | 1%, 0.25W, MF               |        |
| R...14   | 57.11.3682 | 6.8      | kOhm     | 1%, 0.25W, MF               |        | R...124  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| R...15   | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | R...125  | 57.11.3332 | 3.3      | kOhm        | 1%, 0.25W, MF               |        |
| R...16   | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | R...126  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| S T U D E R (00) 89/12/19 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.22 PAGE 4 |            |          |          |                             |        | S T U D E R (00) 89/12/19 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.22 PAGE 7 |            |          |             |                             |        |
| IND.   | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. |
| R....16  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | R...127  | 57.11.3222 | 2.2      | kOhm        | 1%, 0.25W, MF               |        |
| R....17  | 57.11.3682 | 6.8      | kOhm     | 1%, 0.25W, MF               |        | R...128  | 57.11.3392 | 3.9      | kOhm        | 1%, 0.25W, MF               |        |
| R....18  | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...129  | 57.11.3331 | 330      | Ohm         | 1%, 0.25W, MF               |        |
| R....19  | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...130  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| R....20  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | R...131  | 57.11.3332 | 3.3      | kOhm        | 1%, 0.25W, MF               |        |
| R....21  | 57.11.3223 | 22       | kOhm     | 1%, 0.25W, MF               |        | R...132  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| R....22  | 57.11.3472 | 4.7      | kOhm     | 1%, 0.25W, MF               |        | R...133  | 57.11.3222 | 2.2      | kOhm        | 1%, 0.25W, MF               |        |
| R....23  | 57.11.3472 | 4.7      | kOhm     | 1%, 0.25W, MF               |        | R...134  | 57.11.3392 | 3.9      | kOhm        | 1%, 0.25W, MF               |        |
| R....24  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | R...135  | 57.11.3331 | 330      | Ohm         | 1%, 0.25W, MF               |        |
| R....25  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | R...136  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| R....26  | 57.11.3223 | 22       | kOhm     | 1%, 0.25W, MF               |        | R...137  | 57.11.3332 | 3.3      | kOhm        | 1%, 0.25W, MF               |        |
| R....27  | 57.11.3123 | 12       | kOhm     | 1%, 0.25W, MF               |        | R...138  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| R....28  |            |          | not used |                             |        | R...139  | 57.11.3222 | 2.2      | kOhm        | 1%, 0.25W, MF               |        |
| R....29  | 57.11.3223 | 22       | kOhm     | 1%, 0.25W, MF               |        | R...140  | 57.11.3392 | 3.9      | kOhm        | 1%, 0.25W, MF               |        |
| R....30  | 57.11.3105 | 1        | MOhm     | 1%, 0.25W, MF               |        | R...141  | 57.11.3331 | 330      | Ohm         | 1%, 0.25W, MF               |        |
| R....31  |            |          | not used |                             |        | R...142  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| R....32  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | R...143  | 57.11.3332 | 3.3      | kOhm        | 1%, 0.25W, MF               |        |
| R....33  | 57.11.3333 | 33       | kOhm     | 1%, 0.25W, MF               |        | R...144  | 57.11.3472 | 4.7      | kOhm        | 1%, 0.25W, MF               |        |
| R....34  | 57.11.3109 | 1        | Ohm      | 1%, 0.25W, MF               |        | R...145  | 57.11.3222 | 2.2      | kOhm        | 1%, 0.25W, MF               |        |
| R....35  | 58.01.8103 | 10       | kOhm     | Potentiater PMG             |        | R...146  | 57.11.3392 | 3.9      | kOhm        | 1%, 0.25W, MF               |        |
| R....36  | 57.11.3472 | 4.7      | kOhm     | 1%, 0.25W, MF               |        | R...147  | 57.11.3331 | 330      | Ohm         | 1%, 0.25W, MF               |        |
| R....37  |            |          | not used |                             |        | R...148  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| R....38  | 57.11.3333 | 33       | kOhm     | 1%, 0.25W, MF               |        | R...149  | 57.11.3331 | 330      | Ohm         | 1%, 0.25W, MF               |        |
| R....39  | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | R...150  | 57.11.3103 | 10       | kOhm        | 1%, 0.25W, MF               |        |
| R....40  | 57.11.3123 | 12       | kOhm     | 1%, 0.25W, MF               |        | R...151  | 57.11.3102 | 1        | kOhm        | 1%, 0.25W, MF               |        |
| R....41  | 57.11.3123 | 12       | kOhm     | 1%, 0.25W, MF               |        | R...152  | 57.11.3100 | 10       | Ohm         | 1%, 0.25W, MF               |        |
| R....42  | 57.11.3393 | 39       | kOhm     | 1%, 0.25W, MF               |        | R...153  | 57.11.3100 | 10       | Ohm         | 1%, 0.25W, MF               |        |
| R....43  | 57.11.3393 | 39       | kOhm     | 1%, 0.25W, MF               |        |  |            |          |             |                             |        |
| R....44  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | TP....1  | 54.02.0320 |          | Test Point  | ANP                         |        |
| R....45  | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | TP....2  | 54.02.0320 |          | Test Point  | ANP                         |        |
| R....46  | 57.11.3682 | 6.8      | kOhm     | 1%, 0.25W, MF               |        | TP....3  | 54.02.0320 |          | Test Point  | ANP                         |        |
| R....47  |            |          | not used |                             |        | TP....4  | 54.02.0320 |          | Test Point  | ANP                         |        |
| R....48  |            |          | not used |                             |        | TP....5  | 54.02.0320 |          | Test Point  | ANP                         |        |
| R....49  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | TP....6  | 54.02.0320 |          | Test Point  | ANP                         |        |
| R....50  | 57.11.3224 | 220      | kOhm     | 1%, 0.25W, MF               |        | TP....7  | 54.02.0320 |          | Test Point  | ANP                         |        |
| R....51  | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        |  |            |          |             |                             |        |
| R....52  |            |          | not used |                             |        | W....1   | 64.01.0106 |          | Wire Bridge |                             |        |
| S T U D E R (00) 89/12/19 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.22 PAGE 5 |            |          |          |                             |        | S T U D E R (00) 89/12/19 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.22 PAGE 8 |            |          |             |                             |        |
| IND.   | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. |
| R....53  |            |          |          | not used                    |        | W....2   | 64.01.0106 |          | Wire Bridge |                             |        |
| R....54  | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | XIC...1  | 53.03.0166 | 8        | Pole        | IC Socket                   |        |
| R....55  | 57.11.3682 | 6.8      | kOhm     | 1%, 0.25W, MF               |        | XIC...2  | 53.03.0168 | 16       | Pole        | IC Socket                   |        |
| R....56  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | XIC...3  | 53.03.0166 | 8        | Pole        | IC Socket                   |        |
| R....57  | 57.11.3332 | 3.3      | kOhm     | 1%, 0.25W, MF               |        | XIC...4  | 53.03.0167 | 14       | Pole        | IC Socket                   |        |
| R....58  | 57.11.3822 | 8.2      | kOhm     | 1%, 0.25W, MF               |        | XIC...5  | 53.03.0166 | 8        | Pole        | IC Socket                   |        |
| R....59  |            |          | not used |                             |        | XIC...6  | 53.03.0168 | 16       | Pole        | IC Socket                   |        |
| R....60  | 57.11.3104 | 100      | kOhm     | 1%, 0.25W, MF               |        | XIC...7  | 53.03.0168 | 16       | Pole        | IC Socket                   |        |
| R....61  | 57.11.3124 | 120      | kOhm     | 1%, 0.25W, MF               |        | XIC...8  | 53.03.0168 | 16       | Pole        | IC Socket                   |        |
| R....62  | 57.11.3154 | 150      | kOhm     | 1%, 0.25W, MF               |        | XIC...9  | 53.03.0166 | 8        | Pole        | IC Socket                   |        |
| R....63  | 57.11.3103 | 10       | kOhm     | 1%, 0.25W, MF               |        | XIC...10   | 53.03.0166 | 8        | Pole        | IC Socket                   |        |
| R....64  | 57.11.3222 | 2.2      | kOhm     | 1%, 0.25W, MF               |        | XIC...11   | 53.03.0166 | 8        | Pole        | IC Socket                   |        |
| R....65  | 57.11.3102 | 1        | kOhm     | 1%, 0.25W, MF               |        | XIC...12   | 53.03.0167 | 14       | Pole        | IC Socket                   |        |
| R....66  | 57.11.3102 | 1        | kOhm     | 1%, 0.25W, MF</             |        |  |            |          |             |                             |        |

## SPOOLING MOTOR FILTER BOARD 1.727.342.00



|               |                        |     |      |              |
|---------------|------------------------|-----|------|--------------|
| 004.11.86 WTL | ...                    | ... | ...  | ...          |
| A 807         |                        |     | PAGE | OF           |
| STUDER        | SP. MOTOR FILTER BOARD |     |      | 1.727.342.00 |

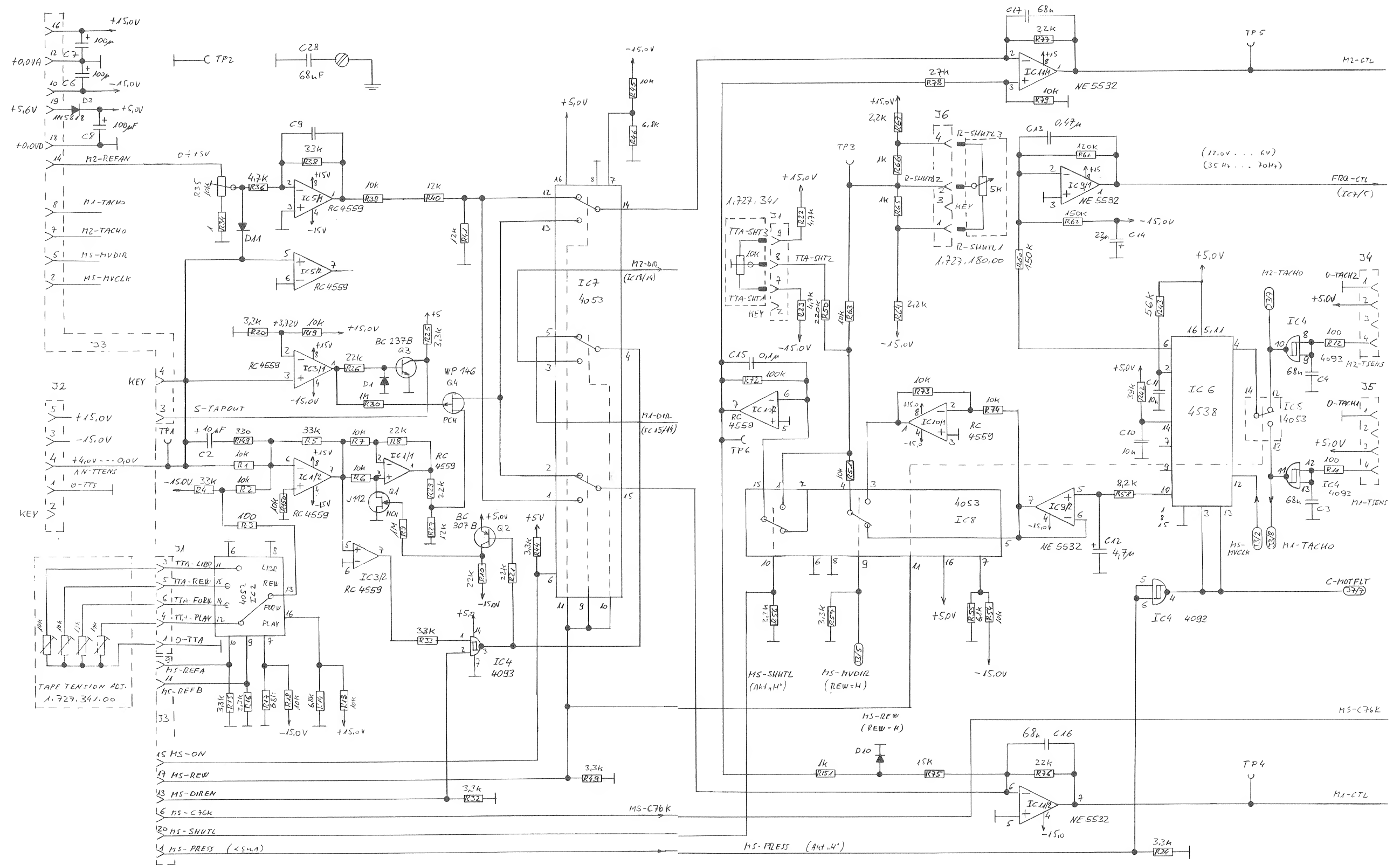
SPOOLING MOTOR FILTER BOARD 1.727.342.00



## SPOOLING MOTOR CONTROL 1.727.340.23

**-SHUTTLE CONTROL 1.727.180.00**

**-TAPE TENSION ADJUST 1.727.341.00**



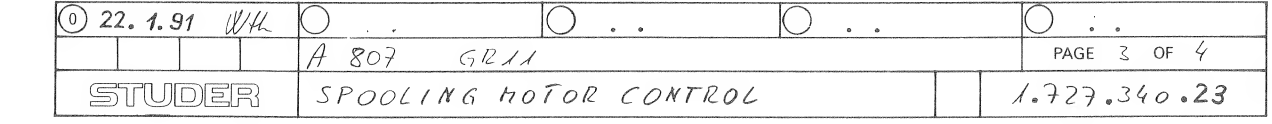
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|-----------|---|------------------------|-------|------|--------------|
| ① 22.1.91 | W | ○ ..                   | ○ ..  | ○ .. | ○ ..         |
|           |   |                        | A 807 | GR11 | PAGE 1 OF 4  |
| STUDER    |   | SPOOLING MOTOR CONTROL |       |      | 1.727.340.23 |

|           |   |                        |      |      |              |
|-----------|---|------------------------|------|------|--------------|
| ② 22.1.91 | W | ○ ..                   | ○ .. | ○ .. | ○ ..         |
|           |   | A 807 GRA1             |      |      |              |
| STUDER    |   | SPOOLING MOTOR CONTROL |      |      | 1.727.340.23 |
|           |   |                        |      |      | PAGE 2 OF 4  |

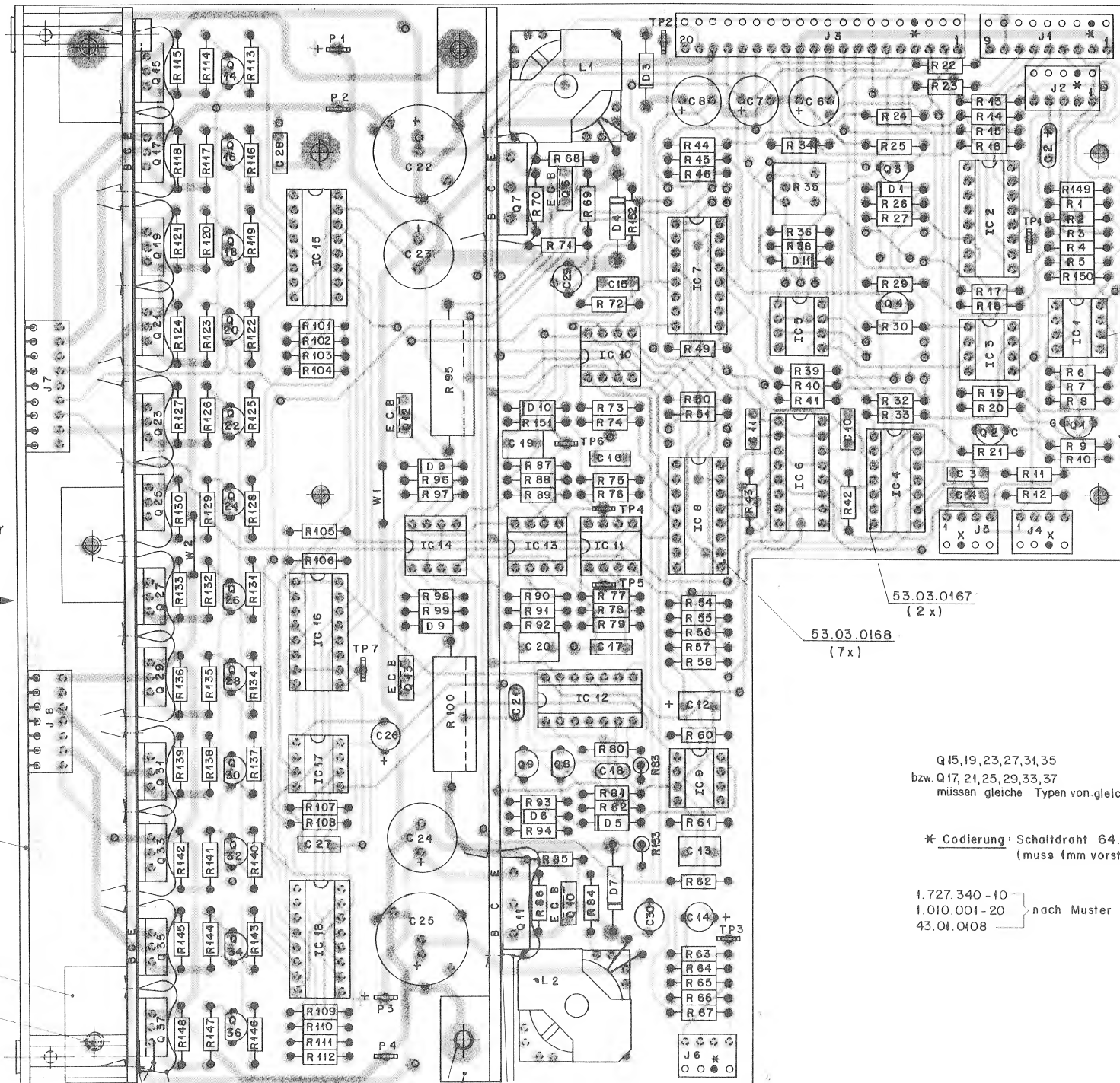


**-SHUTTLE CONTROL 1.727.180.00**

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[illegible]

## SPOOLING MOTOR CONTROL 1.727.340.23



Spooling Motor Filter  
Board 1.727.342.81

1.727.342-00  
A1

1.727.340-01

24.99.0180 (3x)  
24.46.2030 (3x)

24.53.0354 (2x)  
24.46.1030 (2x)

50.20.2003 (12x)  
1.727.340-02

24.53.0354 (2x)  
24.46.2030 (2x)  
1.727.340-03

50.20.2004 (2x)  
50.20.0341 (2x)

53.03.0166  
(9x)

1.727.340-42

① DII

Q 45,19,23,27,31,35  
bzw Q 17,21,25,29,33,37  
müssen gleiche Typen von gleichen Lieferant sein.

\* Codierung: Schaltdraht 64.01.0408 Ø 0,8 x 8 mm  
(muss 1mm vorstehen)

1.727.340-10  
1.010.001-20 } nach Muster geklebt  
43.04.0408

| IND.     | POS.NO. | PART NO.     | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|--------------|---------|-----------------------------|--------|
| A.....1  |         | 1.727.342.81 |         | Sp. Motor Filter Board      | St     |
| C.....1  |         |              |         | not used                    |        |
| C.....2  |         | 59.26.2100   | 10 uF   | 20X 16 V SAL                | Ph     |
| C.....3  |         | 59.06.0683   | 68 nF   | 10X 63 V PETP               |        |
| C.....4  |         | 59.06.0683   | 68 nF   | 10X 63 V PETP               |        |
| C.....5  |         |              |         | not used                    |        |
| C.....6  |         | 59.22.5101   | 100 uF  | -20X 25 V EL                |        |
| C.....7  |         | 59.22.5101   | 100 uF  | -20X 25 V EL                |        |
| C.....8  |         | 59.22.5101   | 100 uF  | -20X 25 V EL                |        |
| C.....9  |         |              |         | not used                    |        |
| C.....10 |         | 59.06.0103   | 10 nF   | 10X 63 V PETP               |        |
| C.....11 |         | 59.06.0103   | 10 nF   | 10X 63 V PETP               |        |
| C.....12 |         | 59.26.1479   | 4.7 uF  | 20X 10 V SAL                |        |
| C.....13 |         | 59.06.0474   | 0.47 uF | 10X 63 V PETP               |        |
| C.....14 |         | 59.22.5220   | 22 uF   | -20X 25 V EL                |        |
| C.....15 |         | 59.06.5104   | 100 nF  | 5X 63 V PETP                |        |
| C.....16 |         | 59.06.0683   | 68 nF   | 10X 63 V PETP               |        |
| C.....17 |         | 59.06.0683   | 68 nF   | 10X 63 V PETP               |        |
| C.....18 |         | 59.34.4331   | 330 pF  | 5X 63 V CER                 |        |
| C.....19 |         | 59.06.0105   | 1 uF    | 10X 63 V PETP               |        |
| C.....20 |         | 59.06.0105   | 1 uF    | 10X 63 V PETP               |        |
| C.....21 |         | 59.32.1681   | 680 pF  | 10X 50 V CER                |        |
| C.....22 |         | 59.22.8471   | 470 uF  | -20X 63 V EL                |        |
| C.....23 |         | 59.22.8221   | 220 uF  | -20X 63 V EL                |        |
| C.....24 |         | 59.22.8221   | 220 uF  | -20X 63 V EL                |        |
| C.....25 |         | 59.22.8471   | 470 uF  | -20X 63 V EL                |        |
| C.....26 |         | 59.22.5220   | 22 uF   | -20X 25 V EL                |        |
| C.....27 |         | 59.06.5104   | 100 nF  | 5X 63 V PETP                |        |
| C.....28 |         | 59.06.0683   | 68 nF   | 10X 63 V PETP               |        |
| C.....29 |         | 59.05.2222   | 2.2 nF  | 2.5X 160 V PP               |        |
| C.....30 |         | 59.05.2222   | 2.2 nF  | 2.5X 160 V PP               |        |
| D.....1  |         | 50.04.0125   | 1N4448  | Diode 50 V SI               |        |
| D.....2  |         |              |         | not used                    |        |
| D.....3  |         | 50.04.0512   | 1N5818  | Diode 30 V Schottky         |        |
| D.....4  |         | 50.04.0521   | MUR410  | Diode 100 V SI              |        |

STUDER (00) 91/01/22 With SPOOLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 1

| IND.      | POS.NO. | PART NO.     | VALUE     | SPECIFICATIONS / EQUIVALENT             | MANUF. |
|-----------|---------|--------------|-----------|---|--------|
| D.....5   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....6   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....7   |         | 50.04.0521   | MUR410    | Diode 100 V SI                          |        |
| D.....8   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....9   |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....10  |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| D.....11  |         | 50.04.0125   | 1N4448    | Diode 50 V SI                           |        |
| IC.....1  |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....2  |         | 50.07.0024   | MC 14052  | Dual 1-4-Ch Analog Switch, CMOS         |        |
| IC.....3  |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....4  |         | 50.07.0008   | 4093      | Quad 2-Input NAND Ss.Trigger CMOS       |        |
| IC.....5  |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....6  |         | 50.07.0538   | 4538      | Monoflop CMOS                           |        |
| IC.....7  |         | 50.07.0015   | MC 14053  | Triple 3-Ch Analog Switch, CMOS         |        |
| IC.....8  |         | 50.07.0015   | MC 14053  | Triple 3-Ch Analog Switch, CMOS         |        |
| IC.....9  |         | 50.09.0105   | NE5532    | Dual Op. Amp.                           |        |
| IC.....10 |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....11 |         | 50.09.0105   | NE5532    | Dual Op. Amp.                           |        |
| IC.....12 |         | 50.17.1000   | 74 HC 00  | Quad 2-Input NAND Gate                  |        |
| IC.....13 |         | 50.09.0107   | RC4559    | Dual Op. Amp.                           |        |
| IC.....14 |         | 50.05.0283   | LM 393    | Dual Comparator                         |        |
| IC.....15 |         | 50.05.0206   |           | Sp. Motor Commutation Ctl. 1.727.343.20 | St     |
| IC.....16 |         | 50.17.1163   | 74 HC 163 | HCMOS                                   |        |
| IC.....17 |         | 50.05.0158   | NE 555 CN | Timer                                   |        |
| IC.....18 |         | 50.05.0206   |           | Sp. Motor Commutation Ctl. 1.727.343.20 | St     |
| J.....1   |         | 54.01.0217   | 9-POLE    | CIS Socket Strip                        | AMP    |
| J.....2   |         | 54.01.0288   | 5-POLE    | CIS Socket Strip                        | AMP    |
| J.....3   |         | 54.01.0226   | 20-POLE   | CIS Socket Strip                        | AMP    |
| J.....4   |         | 54.01.0241   | 4-POLE    | CIS Socket Strip                        | AMP    |
| J.....5   |         | 54.01.0241   | 4-POLE    | CIS Socket Strip                        | AMP    |
| J.....6   |         | 54.01.0241   | 4-POLE    | CIS Socket Strip                        | AMP    |
| J.....7   |         | 54.01.0217   | 9-POLE    | CIS Socket Strip                        | AMP    |
| J.....8   |         | 54.01.0218   | 7-POLE    | CIS Socket Strip                        | AMP    |
| L.....1   |         | 1.022.316.00 | 227 uH    | HF-COIL                                 |        |

STUDER (00) 91/01/22 With SPOOLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 2

| IND.      | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|---------|--------------|----------|-----------------------------|--------|
| L.....2   |         | 1.022.316.00 | 227 uH   | HF-COIL                     |        |
| NP.....1  |         | 1.727.340.12 | 1 pce    | Spooling Motor Ctl. PCB     | St     |
| NP.....2  |         | 1.727.340.01 | 1 pce    | Heatink                     | St     |
| NP.....3  |         | 1.727.340.02 | 1 pce    | Thermoisolator              | St     |
| NP.....4  |         | 50.20.2003   | 12 pce   | Notting Clip                | St     |
| NP.....5  |         | 1.727.340.03 | 1 pce    | Heatink                     |        |
| NP.....6  |         | 50.20.0311   | 2 pce    | Thermoisolator              |        |
| NP.....7  |         | 50.20.2004   | 2 pce    | Notting Clip                |        |
| NP.....8  |         | 21.99.0180   | 3 pce    | Screw M3 x 5                |        |
| NP.....9  |         | 21.53.0354   | 4 pce    | Screw M3 x 6                |        |
| NP.....10 |         | 24.16.1030   | 1 pce    | Fin Lock Washer             |        |
| NP.....11 |         | 24.16.2030   | 5 pce    | Serret Lock Washer          |        |
| NP.....12 |         | 1.727.340.10 | 1 pce    | NO. Label                   |        |
| NP.....13 |         | 43.01.0108   | 1 pce    | ESE Warning Label           | St     |
| P.....1   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| P.....2   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| P.....3   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| P.....4   |         | 54.02.0320   |          | PLUG 2.8 x 0.8              | AMP    |
| Q.....1   |         | 50.03.0350   | MPP 4392 | N-CH                        | FET    |
| Q.....2   |         | 50.03.0315   | BC307    |                             | PNP    |
| Q.....3   |         | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |
| Q.....4   |         | 50.03.0329   | WP 146   | P-CH                        | FET    |
| Q.....5   |         |              |          | not used                    |        |
| Q.....6   |         | 50.03.0452   | BD140-10 |                             | PNP    |
| Q.....7   |         | 50.03.0518   | 2SA1232  |                             | PNP    |
| Q.....8   |         | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |
| Q.....9   |         | 50.03.0515   | BC307    |                             | PNP    |
| Q.....10  |         | 50.03.0452   | BD140-10 |                             | PNP    |
| Q.....11  |         | 50.03.0518   | 2SA1232  |                             | PNP    |
| Q.....12  |         | 50.03.0451   | BD139-10 |                             | NPN    |
| Q.....13  |         | 50.03.0451   | BD139-10 |                             | NPN    |
| Q.....14  |         | 50.03.0491   | BC546B   | Note 1                      | NPN    |
| Q.....15  |         | 50.03.0899   | BD447    |                             | PNP    |
| Q.....16  |         | 50.03.0515   | BC307    |                             | PNP    |

STUDER (00) 91/01/22 With SPOOLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 3

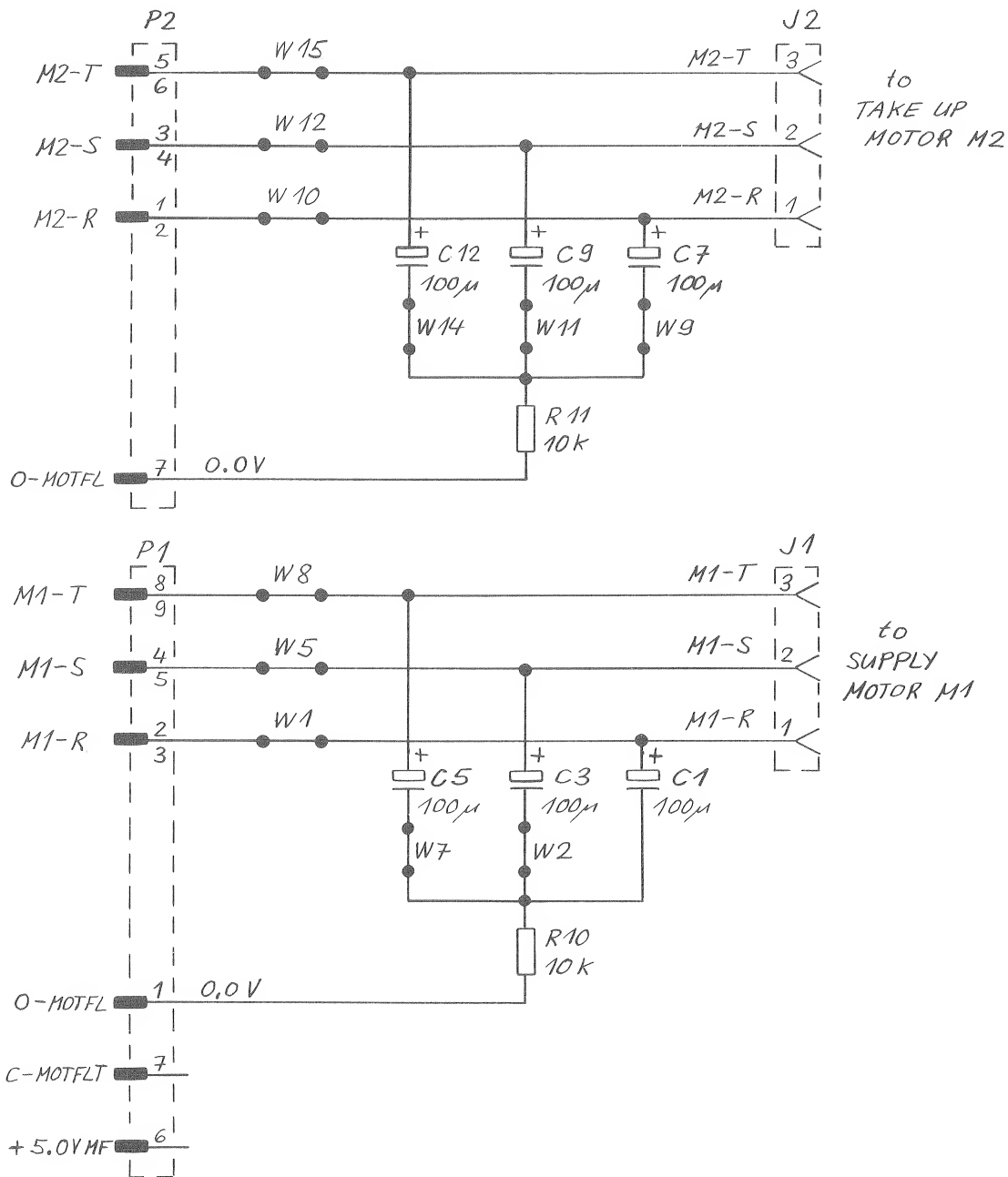


S T U D E R (00) 91/01/22 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 4 S T U D E R (00) 91/01/22 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 7

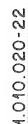
S T U D E R (00) 91/01/22 Wth SPODLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 5 S T U D E R (00) 91/01/22 Wth SPODLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 8

S T U D E R (00) 91/01/22 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 6 S T U D E R (00) 91/01/22 Wth SPOOLING MOTOR CTL. BOARD PL 1.727.340.23 PAGE 9

SPOOLING MOTOR FILTER BOARD 1.727.342.81

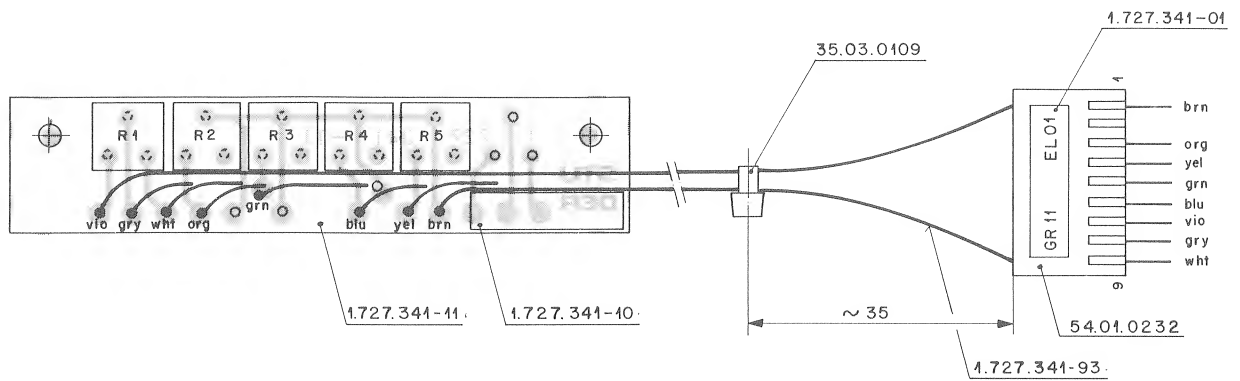


|              |                        |      |              |             |
|--------------|------------------------|------|--------------|-------------|
| © 21.6.91 GP | ○ ..                   | ○ .. | ○ ..         | ○ ..        |
|              | A807 GR12              |      |              | PAGE 1 OF 1 |
| STUDER       | SP. MOTOR FILTER BOARD | SC   | 1.727.342.81 |             |



S T U D E R (01) 91/06/21 Wth SP. MOTOR FILTER BOARD PL 1.727.342.81 PAGE 2

## TAPE TENSION ADJUST BOARD 1.727.341.00



| IND. | POS.NO. | PART NO.     | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|---------|--------------|---------|-----------------------------|--------|
|      | MP....1 | 1.727.341.11 | 1 pce   | Tape Tension Adj. PCB       | St     |
|      | MP....2 | 1.727.341.93 | 1 pce   | L-LST Tape Tension Adj.     | St     |
|      | MP....3 | 54.01.0232   | 1 pce   | CIS Case, 9 Pol             |        |
|      | MP....4 | 1.727.341.10 | 1 pce   | No. label                   | St     |
|      | R....1  | 58.01.8103   | 10 kOhm | Potmeter PMG                |        |
|      | R....2  | 58.01.8103   | 10 kOhm | Potmeter PMG                |        |
|      | R....3  | 58.01.8103   | 10 kOhm | Potmeter PMG                |        |
|      | R....4  | 58.01.8103   | 10 kOhm | Potmeter PMG                |        |
|      | R....5  | 58.01.8103   | 10 kOhm | Potmeter PMG                |        |
|      | R....6  |              |         | not used                    |        |

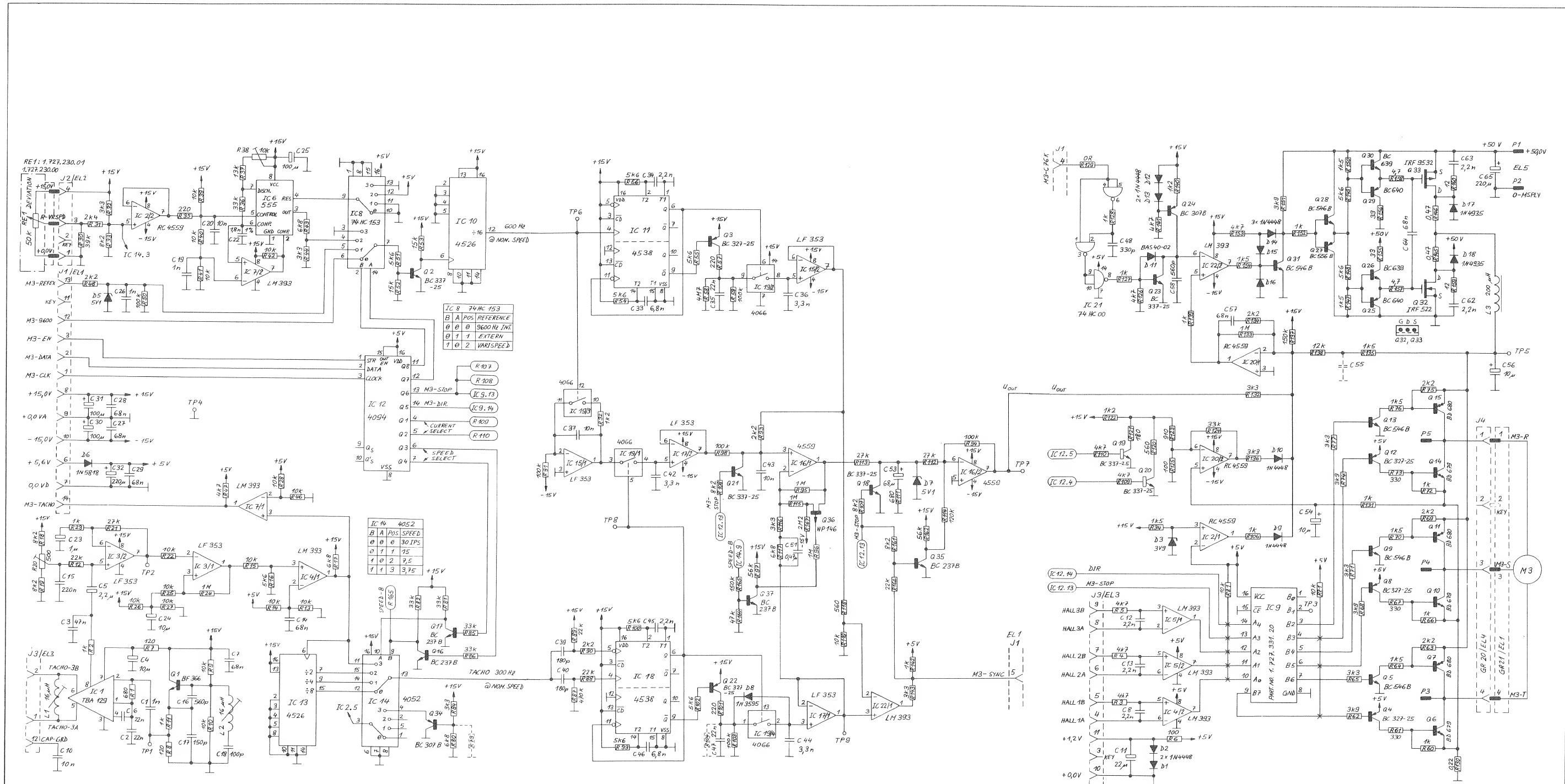
MANUFACTURER: St=Studer

ORIG 86/08/08

S T U D E R (00) 86/08/08 With TAPE TENSION ADJ. BOARD

PL 1.727.341.00 PAGE 1

## CAPSTAN MOTOR CONTROL 1.727.330.24

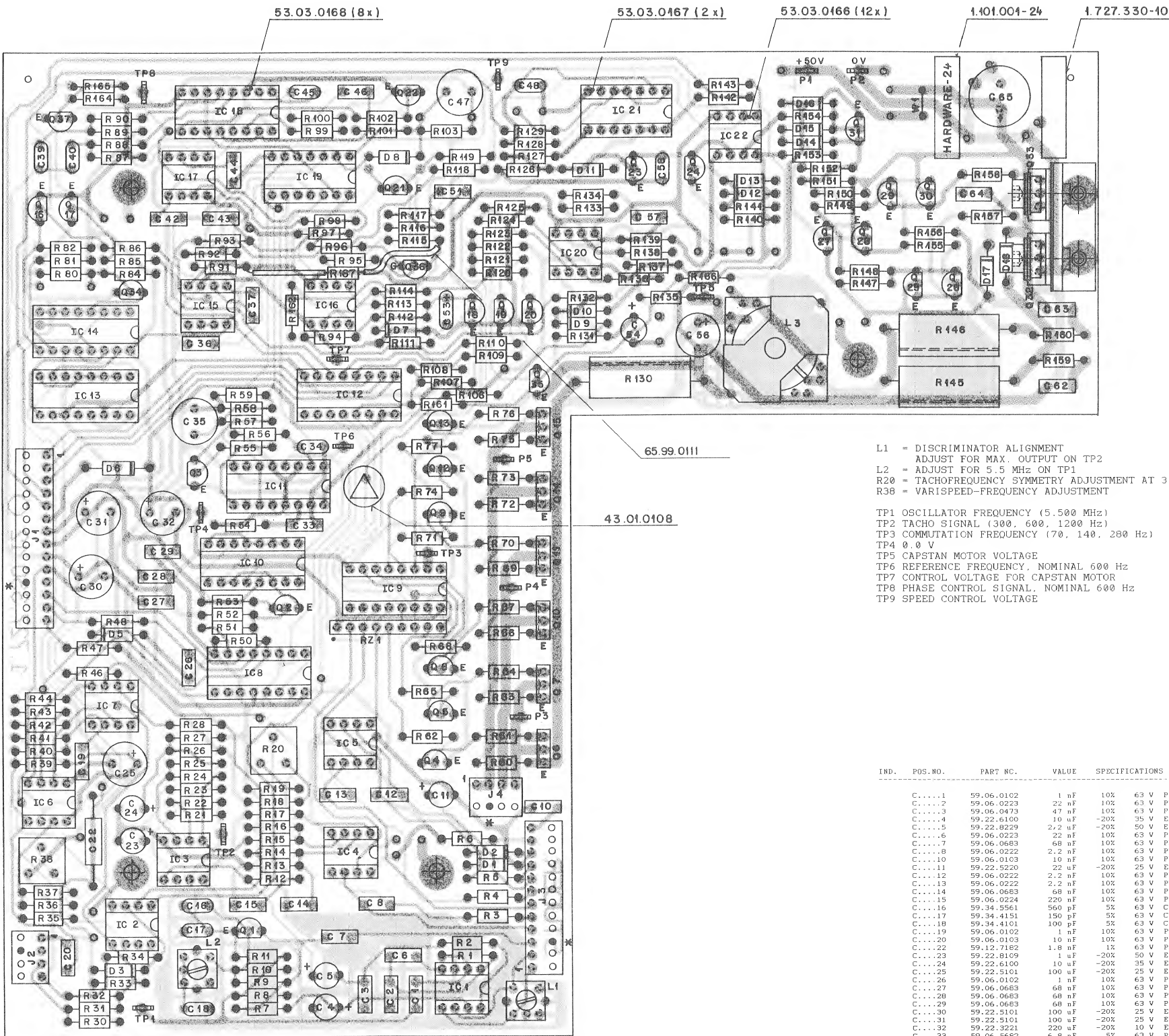


|        |                       |   |             |              |    |    |
|--------|-----------------------|---|-------------|--------------|----|----|
| 0      | 7.3.88 GP             | 1 | 15.10.90 GP | ..           | .. | .. |
|        |                       |   |             |              |    |    |
| STUDER | CAPSTAN MOTOR CONTROL |   | SC          | 1.727.330.24 |    |    |

|        |                       |   |             |              |    |    |
|--------|-----------------------|---|-------------|--------------|----|----|
| 0      | 7.3.88 GP             | 1 | 15.10.90 GP | ..           | .. | .. |
|        |                       |   |             |              |    |    |
| STUDER | CAPSTAN MOTOR CONTROL |   | SC          | 1.727.330.24 |    |    |

|        |                       |   |             |              |    |    |
|--------|-----------------------|---|-------------|--------------|----|----|
| 0      | 7.3.88 GP             | 1 | 15.10.90 GP | ..           | .. | .. |
|        |                       |   |             |              |    |    |
| STUDER | CAPSTAN MOTOR CONTROL |   | SC          | 1.727.330.24 |    |    |

CAPSTAN MOTOR CONTROL 1.727.330.24



L1 = DISCRIMINATOR ALIGNMENT  
L2 = ADJUST FOR MAX. OUTPUT ON TP2  
L20 = ADJUST FOR 5.5 MHz ON TP1  
R20 = TACHOFREQUENCY SYMMETRY ADJUSTMENT AT 3.75 ips (WOW AND FLUTTER)  
R38 = VARISPEED-FREQUENCY ADJUSTMENT

TP1 OSCILLATOR FREQUENCY (5.500 MHz)  
TP2 TACHO SIGNAL (300, 600, 1200 Hz)  
TP3 COMMUTATION FREQUENCY (70, 140, 280 Hz)  
TP4 0.0 V  
TP5 CAPSTAN MOTOR VOLTAGE  
TP6 REFERENCE FREQUENCY, NOMINAL 600 Hz  
TP7 CONTROL VOLTAGE FOR CAPSTAN MOTOR  
TP8 PHASE CONTROL SIGNAL, NOMINAL 600 Hz  
TP9 SPEED CONTROL VOLTAGE

Q6, 10, 14  
AND  
Q7, 11, 15  
MUST BE THE SAME TYPE FROM  
THE SAME MANUFACTURER!  
SET NUMBER: 1.727.001.00

| IND.    | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF.          | IND.    | POS.NO.    | PART NO.   | VALUE                        | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|-------|-----------------------------|-----------------|---------|------------|------------|------------------------------|-----------------------------|--------|
| C....1  | 59.06.0102 | 1 nF     | 10%   | 63 V PETP                   |                 | C....42 | 59.06.0332 | 3.3 nF     | 10%                          | 63 V PETP                   |        |
| C....2  | 59.06.0223 | 22 nF    | 10%   | 63 V PETP                   |                 | C....43 | 59.06.0103 | 10 nF      | 10%                          | 63 V PETP                   |        |
| C....3  | 59.06.0473 | 47 nF    | 10%   | 63 V PETP                   |                 | C....44 | 59.06.0332 | 3.3 nF     | 10%                          | 63 V PETP                   |        |
| C....4  | 59.22.6100 | 10 uF    | -20%  | 35 V EL                     |                 | C....45 | 59.06.0222 | 2.2 nF     | 10%                          | 63 V PETP                   |        |
| C....5  | 59.22.6229 | 2.2 uF   | -20%  | 50 V EL                     |                 | C....46 | 59.06.5682 | 6.8 nF     | 5%                           | 63 V PETP                   |        |
| C....6  | 59.06.0223 | 22 nF    | 10%   | 63 V PETP                   |                 | C....47 | 59.05.1223 | 22 nF      | 1%                           | 63 V PP                     |        |
| C....7  | 59.06.0683 | 68 nF    | 10%   | 63 V PETP                   |                 | C....48 | 59.34.4331 | 330 pF     | 5%                           | 63 V CER                    |        |
| C....8  | 59.06.0222 | 2.2 nF   | 10%   | 63 V PETP                   |                 | C....49 | 59.06.5474 | 470 nF     | 5%                           | 63 V PETP                   |        |
| C....9  | 59.06.0103 | 10 nF    | 10%   | 63 V PETP                   |                 | C....50 | 59.26.0680 | 68 nF      | 20%                          | 6.3 V SAL                   | Ph     |
| C....10 | 59.22.5220 | 22 uF    | -20%  | 25 V EL                     |                 | C....51 | 59.22.6100 | 10 uF      | -20%                         | 35 V EL                     |        |
| C....11 | 59.06.0222 | 2.2 nF   | 10%   | 63 V PETP                   |                 | C....52 | 59.22.8100 | 10 uF      | -20%                         | 63 V EL                     |        |
| C....12 | 59.06.0222 | 2.2 nF   | 10%   | 63 V PETP                   |                 | C....53 | 59.06.0683 | 68 nF      | 10%                          | 63 V PETP                   |        |
| C....13 | 59.06.0222 | 2.2 nF   | 10%   | 63 V PETP                   |                 | C....54 | 59.34.5561 | 560 pF     | 5%                           | 63 V CER                    |        |
| C....14 | 59.06.0683 | 68 nF    | 10%   | 63 V PETP                   |                 | C....55 | 59.06.0222 | 2.2 nF     | 10%                          | 63 V PETP                   |        |
| C....15 | 59.06.0224 | 220 nF   | 10%   | 63 V PETP                   |                 | C....56 | 59.06.0222 | 2.2 nF     | 10%                          | 63 V PETP                   |        |
| C....16 | 59.34.5561 | 560 pF   | 5%    | 63 V CER                    |                 | C....57 | 59.06.0683 | 68 nF      | 10%                          | 63 V PETP                   |        |
| C....17 | 59.34.4151 | 150 pF   | 5%    | 63 V CER                    |                 | C....58 | 59.34.5561 | 560 pF     | 5%                           | 63 V CER                    |        |
| C....18 | 59.34.4101 | 100 pF   | 5%    | 63 V CER                    |                 | C....59 | 59.06.0222 | 2.2 nF     | 10%                          | 63 V PETP                   |        |
| C....19 | 59.06.0102 | 1 nF     | 10%   | 63 V PETP                   |                 | C....60 | 59.06.0683 | 68 nF      | 10%                          | 63 V PETP                   |        |
| C....20 | 59.06.0103 | 10 nF    | 10%   | 63 V PETP                   |                 | C....61 | 59.22.8221 | 220 uF     | -20%                         | 63 V EL                     |        |
| C....21 | 59.12.7182 | 1.8 nF   | 1%    | 63 V PS                     | -150 +/-60ppm/K | D....1  | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....22 | 59.22.8109 | 1 uF     | -20%  | 50 V EL                     |                 | D....2  | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....23 | 59.22.6100 | 10 uF    | -20%  | 35 V EL                     |                 | D....3  | 50.04.1101 | 3.3 V      | 5% 0.4 W                     |                             |        |
| C....24 | 59.22.6100 | 10 uF    | -20%  | 35 V EL                     |                 | D....4  | 50.04.1112 | 5.1 V      | 5% 0.4 W                     |                             |        |
| C....25 | 59.22.5101 | 100 uF   | -20%  | 25 V EL                     |                 | D....5  | 50.04.0512 | 1N5818     | 30 V 1N5819 Schottky         |                             |        |
| C....26 | 59.06.0102 | 1 nF     | 10%   | 63 V PETP                   |                 | D....6  | 50.04.1112 | 5.1 V      | 5% 0.4 W                     |                             |        |
| C....27 | 59.06.0683 | 68 nF    | 10%   | 63 V PETP                   |                 | D....7  | 50.04.1112 | 5.1 V      | 5% 0.4 W                     |                             |        |
| C....28 | 59.06.0683 | 68 nF    | 10%   | 63 V PETP                   |                 | D....8  | 50.04.0134 | 1N3595 DMD | 150 V 1 rev <1 nA @ 125 V    |                             | Fe     |
| C....29 | 59.06.0683 | 68 nF    | 10%   | 63 V PETP                   |                 | D....9  | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....30 | 59.22.5101 | 100 uF   | -20%  | 25 V EL                     |                 | D....10 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....31 | 59.22.5101 | 100 uF   | -20%  | 25 V EL                     |                 | D....11 | 50.04.0127 | BAS 40-02  | 30 V BAT 85, BAT 42 Schottky |                             | Sie,Ph |
| C....32 | 59.22.3221 | 220 uF   | -20%  | 10 V EL                     |                 | D....12 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....33 | 59.06.5682 | 6.8 nF   | 5%    | 63 V PETP                   |                 | D....13 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....34 | 59.06.0222 | 2.2 nF   | 10%   | 63 V PETP                   |                 | D....14 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....35 | 59.05.1223 | 22 nF    | 1%    | 63 V PP                     |                 | D....15 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....36 | 59.06.0332 | 3.3 nF   | 10%   | 63 V PETP                   |                 | D....16 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....37 | 59.06.5103 | 10 nF    | 5%    | 63 V PETP                   |                 | D....17 | 50.04.0508 | 1N4935     | 200 V 1N4936 RG1D            |                             | Not,GI |
| C....38 | 59.34.4181 | 180 pF   | 5%    | 63 V CER                    |                 | D....18 | 50.04.0508 | 1N4935     | 200 V 1N4936 RG1D            |                             | Not,GI |
| C....39 | 59.34.4181 | 180 pF   | 5%    | 63 V CER                    |                 | IC....1 | 50.11.0137 | TBA 129    | FM-ZF-Amp.,Discriminator     |                             | Ph     |
| C....40 | 59.34.4181 | 180 pF   | 5%    | 63 V CER                    |                 |         |            |            |                              |                             |        |

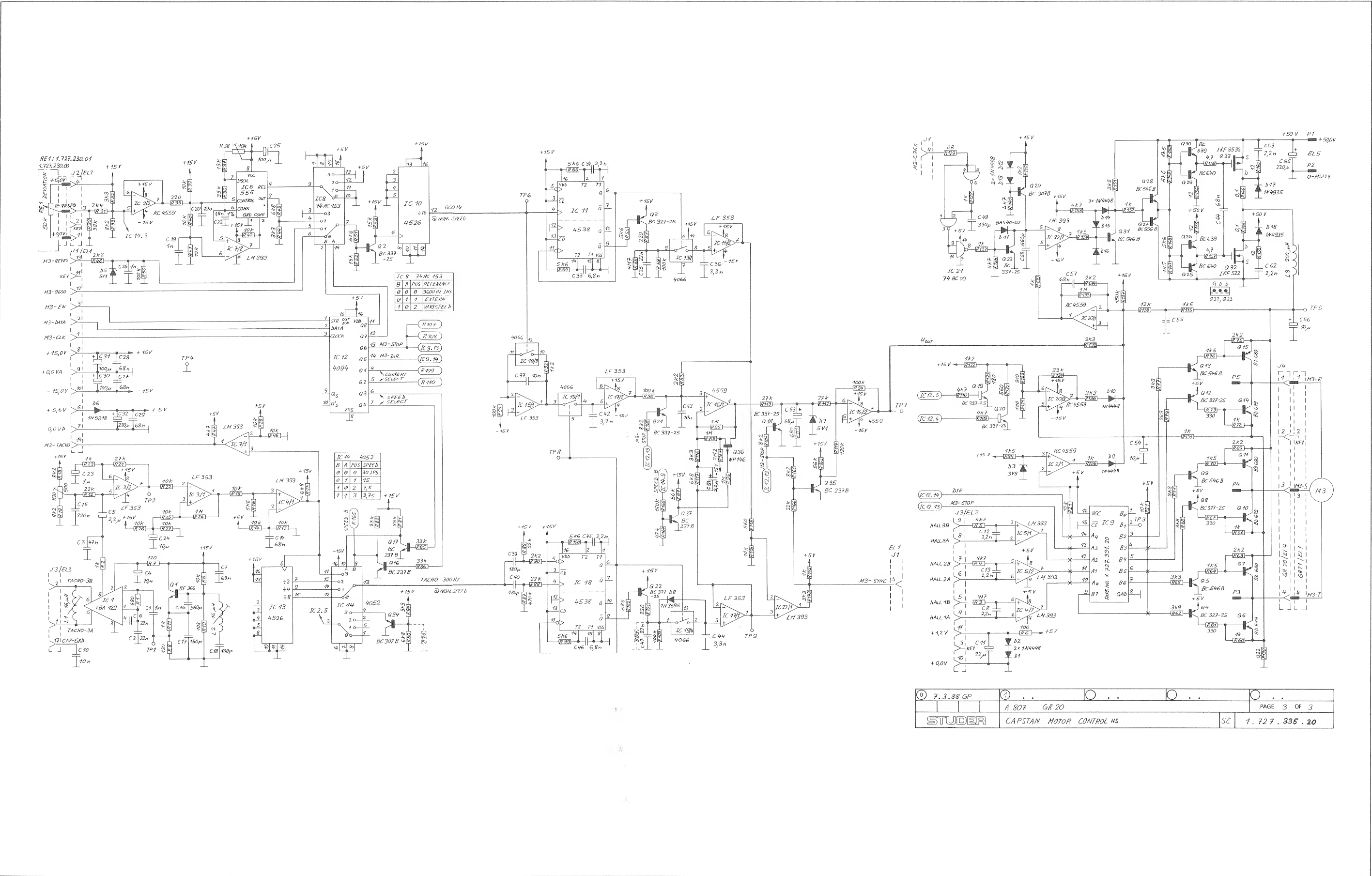


## STUDER A807 MKII

## CAPSTAN MOTOR CONTROL 1.727.330.24

| IND.  | POS.NO.      | PART NO.  | VALUE | SPECIFICATIONS / EQUIVALENT           | MANUF.                   | IND.  | POS.NO.    | PART NO. | VALUE                              | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO.  | VALUE                           | SPECIFICATIONS / EQUIVALENT | MANUF. |  |
|---|--------------|-----------|-------|---------------------------------------|--------------------------|---|------------|----------|------------------------------------|-----------------------------|--------|---|--------------|-----------|---------------------------------|-----------------------------|--------|--|
| IC....2   | 50.09.0107   | RC 4559   |       | uPC 4559 Dual Op.Amp.                 | Ra,NEC                   | R....23   | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF                      |                             |        | R...142   | 57.11.3102   | 1 kOhm    | 1%, 0.25W, MF                   |                             |        |  |
| IC....3   | 50.09.0101   | LF 353 N  |       | TL 072 CP Dual Op.Amp. Bi-JFET        | NS, TI                   | R....24   | 57.11.3105 | 1 MOhm   | 1%, 0.25W, MF                      |                             |        | R...143   | 57.11.3392   | 3.3 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC....4   | 50.05.0283   | LM 393 N  |       | LM 393 P Dual Comp.                   | NS, TI                   | R....25   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (00) R...145  | 57.56.5108   | 0.1 Ohm   | 10%, 4.0 W, Wire                |                             |        |  |
| IC....5   | 50.05.0283   | LM 393 N  |       | LM 393 P Dual Comp.                   | NS, TI                   | R....26   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (01) R...145  | 57.56.5478   | 0.47 Ohm  | 10%, 4.0 W, Wire                |                             |        |  |
| IC....6   | 50.05.0158   | NE 555 N  |       | LM 555 CN                             | Sig, NS                  | R....27   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (00) R...146  | 57.56.5108   | 0.1 Ohm   | 10%, 4.0 W, Wire                |                             |        |  |
| IC....7   | 50.05.0283   | LM 393 N  |       | LM 393 P Dual Comp.                   | NS, TI                   | R....28   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (01) R...146  | 57.56.5478   | 0.47 Ohm  | 10%, 4.0 W, Wire                |                             |        |  |
| IC....8   | 50.17.1153   | 74 HC 153 |       |                                       |                          | R....29   | 57.11.3193 | 39 kOhm  | 1%, 0.25W, MF                      |                             |        | R...147   | 57.11.3152   | 1.5 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC....9   | 50.05.0206   |           |       | Capstan motor conn. Ctl. 1.727.331.20 | St                       | R....31   | 57.11.3242 | 2.4 kOhm | 1%, 0.25W, MF                      |                             |        | R...148   | 57.11.3562   | 5.6 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC...10   | 50.07.0526   | ..4526..  |       |                                       |                          | R....32   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF                      |                             |        | R...149   | 57.11.3562   | 5.6 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC...11   | 50.07.0538   | ..4538..  |       |                                       | Ph, Mot                  | R....33   | 57.11.3622 | 8.2 kOhm | 1%, 0.25W, MF                      |                             |        | R...150   | 57.11.3152   | 1.5 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC...12   | 50.07.0018   | ..4098..  |       |                                       |                          | R....34   | 57.11.3152 | 1.5 kOhm | 1%, 0.25W, MF                      |                             |        | R...151   | 57.11.3392   | 3.9 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC...13   | 50.07.0526   | ..4526..  |       |                                       |                          | R....35   | 57.11.3221 | 220 Ohm  | 1%, 0.25W, MF                      |                             |        | R...152   | 57.11.3102   | 1 kOhm    | 1%, 0.25W, MF                   |                             |        |  |
| IC...14   | 50.07.0024   | ..4052..  |       |                                       |                          | R....36   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | R...153   | 57.11.3472   | 4.7 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC...15   | 50.09.0101   | LF 353 N  |       | TL 072 CP Dual Op.Amp. Bi-JFET        | NS, TI                   | R....37   | 57.11.3133 | 13 kOhm  | 1%, 0.25W, MF                      |                             |        | R...154   | 57.11.3152   | 1.5 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| IC...16   | 50.09.0107   | RC 4559   |       | uPC 4559 Dual Op.Amp.                 | Ra, NEC                  | R....38   | 58.01.8103 | 10 kOhm  | 10%, 0.5 W, CERMET, lin. Triimpot. |                             |        | (00) R...155  | 57.11.3120   | 12 Ohm    | 1%, 0.25W, MF                   |                             |        |  |
| IC...17   | 50.09.0101   | LF 353 N  |       | TL 072 CP Dual Op.Amp. Bi-JFET        | NS, TI                   | R....39   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (01) R...155  | 57.19.0330   | 33 Ohm    | 5%, 0.33W, / \ fusible resistor |                             |        |  |
| IC...18   | 50.07.0538   | ..4538..  |       |                                       | Ph, Mot                  | R....40   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (00) R...156  | 57.11.3120   | 12 Ohm    | 1%, 0.25W, MF                   |                             |        |  |
| IC...19   | 50.07.0066   | ..4066..  |       |                                       |                          | R....41   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (01) R...156  | 57.19.0330   | 33 Ohm    | 5%, 0.33W, / \ fusible resistor |                             |        |  |
| IC...20   | 50.09.0107   | RC 4559   |       | uPC 4559 Dual Op.Amp.                 | Ra, NEC                  | R....42   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (00) R...157  | 57.11.3479   | 4.7 Ohm   | 1%, 0.25W, MF                   |                             |        |  |
| IC...21   | 50.17.1000   | 74 HC 00  |       |                                       |                          | R....43   | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF                      |                             |        | (01) R...157  | 57.19.0479   | 4.7 Ohm   | 5%, 0.33W, / \ fusible resistor |                             |        |  |
| IC...22   | 50.05.0283   | LM 393 N  |       | LM 393 P Dual Comp.                   | NS, TI                   | R....44   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF                      |                             |        | (00) R...158  | 57.11.3479   | 4.7 Ohm   | 1%, 0.25W, MF                   |                             |        |  |
| J....1  | 54.01.0293   | 14 Pole   |       | CIS socket strip                      | AMP                      | R....46   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | (01) R...158  | 57.19.0479   | 4.7 Ohm   | 5%, 0.33W, / \ fusible resistor |                             |        |  |
| J....2  | 54.01.0241   | 4 Pole    |       | CIS socket strip                      | AMP                      | R....47   | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF                      |                             |        | R...159   | 57.11.3120   | 12 Ohm    | 1%, 0.25W, MF                   |                             |        |  |
| J....3  | 54.01.0215   | 12 Pole   |       | CIS socket strip                      | AMP                      | R....48   | 57.11.3222 | 2.2 kOhm | 1%, 0.25W, MF                      |                             |        | R...160   | 57.11.3120   | 12 Ohm    | 1%, 0.25W, MF                   |                             |        |  |
| J....4  | 54.01.0241   | 4 Pole    |       | CIS socket strip                      | AMP                      | R....50   | 57.11.3104 | 100 kOhm | 1%, 0.25W, MF                      |                             |        | R...161   | 57.11.3622   | 8.2 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| L....1  | 1.022.222.00 | 16 uH     |       | HF-Coil                               | St                       | R....51   | 57.11.3562 | 5.6 kOhm | 1%, 0.25W, MF                      |                             |        | R...162   | 57.11.3563   | 56 kOhm   | 1%, 0.25W, MF                   |                             |        |  |
| L....2  | 1.022.222.00 | 16 uH     |       | HF-Coil                               | St                       | R....52   | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF                      |                             |        | R...164   | 57.11.3473   | 47 kOhm   | 1%, 0.25W, MF                   |                             |        |  |
| L....3  | 1.022.251.00 | 196 uH    |       | Filter Coil                           | St                       | R....53   | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF                      |                             |        | R...165   | 57.11.3154   | 150 kOhm  | 1%, 0.25W, MF                   |                             |        |  |
| MP....1   | 1.727.330.12 | 1 pce     |       | PC Board                              | St                       | R....54   | 57.11.3562 | 5.6 kOhm | 1%, 0.25W, MF                      |                             |        | R...166   | 57.11.3223   | 22 kOhm   | 1%, 0.25W, MF                   |                             |        |  |
| MP....2   | 1.727.400.01 | 1 pce     |       | Heatsink                              | St                       | R....55   | 57.11.3562 | 5.6 kOhm | 1%, 0.25W, MF                      |                             |        | R...167   | 57.11.5225   | 2.2 MOhm  | 5%, 0.25W, MF                   |                             |        |  |
| MP....3   | 21.99.0180   | 2 pce     |       | M3 * 5 Cross recessed oval head screw |                          | R....56   | 57.11.3562 | 5.6 kOhm | 1%, 0.25W, MF                      |                             |        | RZ....1   | 57.88.4103   | 8*10 kOhm | 5%, Single Line                 |                             |        |  |
| MP....4   | 21.53.0355   | 2 pce     |       | M3 * 8 Hexagon socket head cap screw  |                          | R....57   | 57.11.3221 | 220 Ohm  | 1%, 0.25W, MF                      |                             |        | TP....1   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
| MP....5   | 24.16.2030   | 2 pce     |       | Serral lock washer D3.2/6.0           |                          | R....58   | 57.11.5475 | 4.7 MOhm | 5%, 0.25W, MF                      |                             |        | TP....2   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
| MP....6   | 37.01.0101   | 4 pce     |       | Disc spring D3.2/8.0 * 0.3            |                          | R....59   | 57.11.3104 | 100 kOhm | 1%, 0.25W, MF                      |                             |        | TP....3   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
|   |              |           |       |                                       |                          | R....60   | 57.11.3102 | 10 kOhm  | 1%, 0.25W, MF                      |                             |        | TP....4   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
|   |              |           |       |                                       |                          | R....61   | 57.11.3391 | 330 Ohm  | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
|   |              |           |       |                                       |                          | R....62   | 57.11.3392 | 3.9 kOhm | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| S T U D E R (01) 90/10/15 GP CAPSTAN MOTOR CONTROL PL 1.727.330.24 PAGE 3 |              |           |       |                                       |                          | S T U D E R (01) 90/10/15 GP CAPSTAN MOTOR CONTROL PL 1.727.330.24 PAGE 6 |            |          |                                    |                             |        | S T U D E R (01) 90/10/15 GP CAPSTAN MOTOR CONTROL PL 1.727.330.24 PAGE 9 |              |           |                                 |                             |        |  |
| IND.  | POS.NO.      | PART NO.  | VALUE | SPECIFICATIONS / EQUIVALENT           | MANUF.                   | IND.  | POS.NO.    | PART NO. | VALUE                              | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO.  | VALUE                           | SPECIFICATIONS / EQUIVALENT | MANUF. |  |
| MP....7   | 50.20.0404   | 2 pce     |       | Insulating pass through D6.0/3.5      |                          | R....63   | 57.11.3222 | 2.2 kOhm | 1%, 0.25W, MF                      |                             |        | TP....5   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
| MP....8   | 1.010.098.27 | 2 pce     |       | Distance socket D3.1/7.0 * 2.5        | St                       | R....64   | 57.11.3152 | 1.5 kOhm | 1%, 0.25W, MF                      |                             |        | TP....6   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
| MP....9   | 50.20.0305   | 2 pce     |       | Greased insulation for TO 220         |                          | R....65   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF                      |                             |        | TP....7   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
| MP...10   | 1.727.330.10 | 1 pce     |       | No. label                             | St                       | R....66   | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF                      |                             |        | TP....8   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
| MP...11   | 1.727.330.01 | 1 pce     |       | No. label 5 * 17                      | St                       | R....67   | 57.11.3331 | 330 Ohm  | 1%, 0.25W, MF                      |                             |        | TP....9   | 54.02.0320   | 1 Pole    | Tab                             |                             |        |  |
| MP...12   | 45.01.0108   | 1 pce     |       | ESR label                             | St                       | R....68   | 57.11.3392 | 3.9 kOhm | 1%, 0.25W, MF                      |                             |        | W....1  | 1.010.321.64 |           | Wire Bridge                     |                             |        |  |
| MP...13   | 1.101.001.24 | 1 pce     |       | Hardware label -24                    | St                       | R....69   | 57.11.3222 | 2.2 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...1   | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| P....1  | 54.02.0320   | 1 Pole    |       | Tab                                   |                          | R....70   | 57.11.3152 | 1.5 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...2   | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| P....2  | 54.02.0320   | 1 Pole    |       | Tab                                   |                          | R....71   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...3   | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| P....3  | 54.02.0320   | 1 Pole    |       | Tab                                   |                          | R....72   | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF                      |                             |        | XIC...4   | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| P....4  | 54.02.0320   | 1 Pole    |       | Tab                                   |                          | R....73   | 57.11.3331 | 330 Ohm  | 1%, 0.25W, MF                      |                             |        | XIC...5   | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| P....5  | 54.02.0320   | 1 Pole    |       | Tab                                   |                          | R....74   | 57.11.3392 | 3.9 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...6   | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| Q....1  | 50.03.0514   | BC 366    |       | NPN                                   | Not                      | R....75   | 57.11.3222 | 2.2 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...7   | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| Q....2  | 50.03.0340   | BC 327-25 |       | NPN                                   |                          | R....76   | 57.11.3152 | 1.5 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...8   | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....3  | 50.03.0351   | BC 327-25 |       | PNP                                   |                          | R....77   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...9   | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....4  | 50.03.0351   | BC 327-25 |       | PNP                                   |                          | R....78   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...10  | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....5  | 50.03.0491   | BC 546 B  |       | NPN                                   |                          | R....79   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...11  | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....6  | 50.03.0749   | BD 679    |       | Darl.                                 | NPN (see note 1) Ph, SGS | R....80   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...12  | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....7  | 50.03.0799   | BD 680    |       | Darl.                                 | PNP (see note 1) Ph, SGS | R....81   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...13  | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....8  | 50.03.0351   | BC 327-25 |       | PNP                                   |                          | R....82   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...14  | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....9  | 50.03.0491   | BC 546 B  |       | NPN                                   |                          | R....83   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...15  | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| Q....10   | 50.03.0749   | BD 679    |       | Darl.                                 | NPN (see note 1) Ph, SGS | R....84   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...16  | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| Q....11   | 50.03.0799   | BD 680    |       | Darl.                                 | PNP (see note 1) Ph, SGS | R....85   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...17  | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| Q....12   | 50.03.0351   | BC 327-25 |       | PNP                                   |                          | R....86   | 57.11.3333 | 33 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...18  | 53.03.0166   | 16 Pole   | IC socket                       |                             |        |  |
| Q....13   | 50.03.0491   | BC 546 B  |       | NPN                                   |                          | R....87   | 57.11.3474 | 470 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...19  | 53.03.0167   | 14 Pole   | IC socket                       |                             |        |  |
| Q....14   | 50.03.0749   | BD 679    |       | Darl.                                 | NPN (see note 1) Ph, SGS | R....88   | 57.11.3223 | 22 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...20  | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| Q....15   | 50.03.0799   | BD 680    |       | Darl.                                 | PNP (see note 1) Ph, SGS | R....89   | 57.11.3223 | 22 kOhm  | 1%, 0.25W, MF                      |                             |        | XIC...21  | 53.03.0167   | 14 Pole   | IC socket                       |                             |        |  |
| Q....16   | 50.03.0436   | BC 237 B  |       | NPN                                   |                          | R....90   | 57.11.3222 | 2.2 kOhm | 1%, 0.25W, MF                      |                             |        | XIC...22  | 53.03.0166   | 8 Pole    | IC socket                       |                             |        |  |
| Q....17   | 50.03.0436   | BC 237 B  |       | NPN                                   |                          | R....91   | 57.11.3104 | 100 kOhm | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| Q....18   | 50.03.0340   | BC 327-25 |       | NPN                                   |                          | R....92   | 57.11.3122 | 1.2 kOhm | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| Q....19   | 50.03.0340   | BC 327-25 |       | NPN                                   |                          | R....93   | 57.11.3222 | 2.2 kOhm | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| Q....20   | 50.03.0340   | BC 327-25 |       | NPN                                   |                          | R....94   | 57.11.3104 | 100 kOhm | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| Q....21   | 50.03.0340   | BC 327-25 |       | NPN                                   |                          | R....95   | 57.11.3105 | 1 MOhm   | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| Q....22   | 50.03.0351   | BC 327-25 |       | PNP                                   |                          | R....96   | 57.11.3105 | 1 MOhm   | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| Q....23   | 50.03.0340   | BC 327-25 |       | NPN                                   |                          | R....97   | 57.11.3563 | 56 kOhm  | 1%, 0.25W, MF                      |                             |        |   |              |           |                                 |                             |        |  |
| S T U D E R (01) 90/10/15 GP CAPSTAN MOTOR CONTROL PL 1.727.330.24 PAGE 4 |              |           |       |                                       |                          |   |            |          |                                    |                             |        |   |              |           |                                 |                             |        |  |

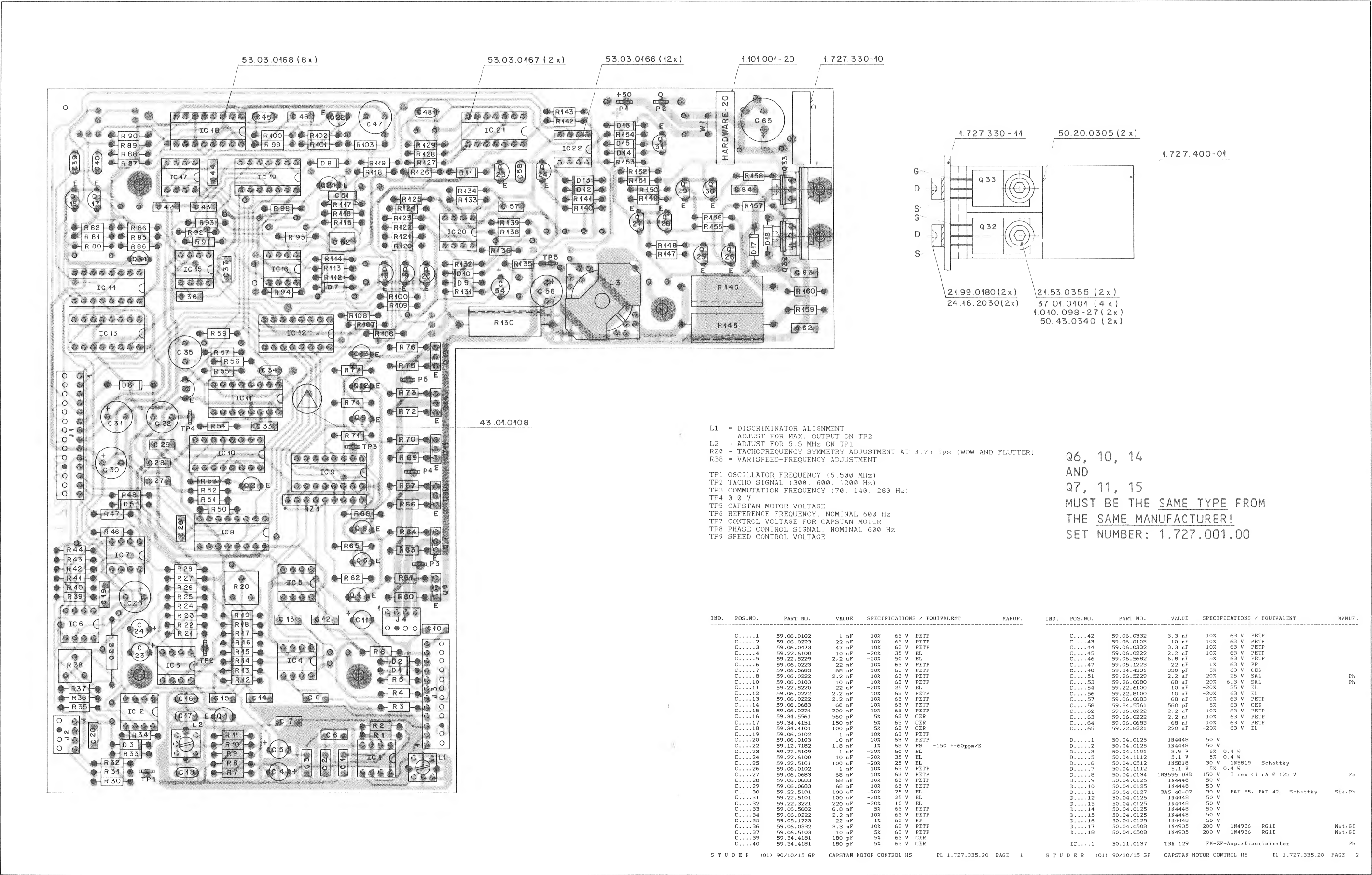
CAPSTAN MOTOR CONTROL HS 1.727.335.20/1.727.335.21



|           |                          |                 |
|-----------|--------------------------|-----------------|
| 7.3.38 GP | A 807 GR 20              | PAGE 3 OF 3     |
| STUDER    | CAPSTAN MOTOR CONTROL HS | SC 1.727.335.20 |



CAPSTAN MOTOR CONTROL HS 1.727.335.20



## CAPSTAN MOTOR CONTROL HS 1.727.335.20

| IND.    | POS.NO.      | PART NO.  | VALUE                                  | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|--------------|-----------|--|-----------------------------|--------|
| IC...2  | 50.09.0107   | RC 4559   | uPC 4559                               | Dual Op.Amp.                | Re/NEC |
| IC...3  | 50.09.0101   | LF 353 N  | TL 072 CP                              | Dual Op.Amp. Bi-JFET        | NS/TI  |
| IC...4  | 50.05.0283   | LM 393 N  | LM 393 P                               | Dual Comp.                  | NS/TI  |
| IC...5  | 50.05.0283   | LM 393 N  | LM 393 P                               | Dual Comp.                  | NS/TI  |
| IC...6  | 50.05.0158   | NE 555 N  | LM 555 CN                              |                             | Sig/NS |
| IC...7  | 50.05.0283   | LM 393 N  | LM 393 P                               | Dual Comp.                  | NS/TI  |
| IC...8  | 50.17.1153   | 74 HC 153 |  |                             |        |
| IC...9  | 50.05.0206   |           | Capstan motor com. Ctl. 1.727.331.20   | St                          |        |
| IC...10 | 50.07.0526   | ..4526..  |  |                             |        |
| IC...11 | 50.07.0538   | ..4538..  |  | Ph/Mot                      |        |
| IC...12 | 50.07.0018   | ..4094..  |  |                             |        |
| IC...13 | 50.07.0526   | ..4526..  |  |                             |        |
| IC...14 | 50.07.0024   | ..4052..  |  |                             |        |
| IC...15 | 50.09.0101   | LF 353 N  | TL 072 CP                              | Dual Op.Amp. Bi-JFET        | NS/TI  |
| IC...16 | 50.09.0107   | RC 4559   | uPC 4559                               | Dual Op.Amp.                | Re/NEC |
| IC...17 | 50.09.0101   | LF 353 N  | TL 072 CP                              | Dual Op.Amp. Bi-JFET        | NS/TI  |
| IC...18 | 50.07.0538   | ..4538..  |  | Ph/Mot                      |        |
| IC...19 | 50.07.0066   | ..4066..  |  |                             |        |
| IC...20 | 50.09.0107   | RC 4559   | uPC 4559                               | Dual Op.Amp.                | Re/NEC |
| IC...21 | 50.17.1000   | 74 HC 00  |  |                             |        |
| IC...22 | 50.05.0283   | LM 393 N  | LM 393 P                               | Dual Comp.                  | NS/TI  |
| J...1   | 54.01.0293   | 14 Pole   | CIS socket strip                       | AMP                         |        |
| J...2   | 54.01.0241   | 4 Pole    | CIS socket strip                       | AMP                         |        |
| J...3   | 54.01.0215   | 12 Pole   | CIS socket strip                       | AMP                         |        |
| J...4   | 54.01.0241   | 4 Pole    | CIS socket strip                       | AMP                         |        |
| L...1   | 1.022.222.00 | 16 uH     | HF-Coil                                | St                          |        |
| L...2   | 1.022.222.00 | 16 uH     | HF-Coil                                | St                          |        |
| L...3   | 1.022.251.00 | 196 uH    | Filter Coil                            | St                          |        |
| MP...1  | 1.727.330.12 | 1 pce     | PC Board                               | St                          |        |
| MP...2  | 1.727.400.01 | 1 pce     | Heatshink                              | St                          |        |
| MP...3  | 21.99.0180   | 2 pce     | M3 x 5 Chrome recessed oval head screw |                             |        |
| MP...4  | 21.53.0355   | 2 pce     | M3 x 8 Hexagon socket head cap screw   |                             |        |
| MP...5  | 24.16.2030   | 2 pce     | Serral lock washer D3.2/6.0            |                             |        |
| MP...6  | 37.01.0101   | 4 pce     | Disc spring D3.2/8.0 x 0.3             |                             |        |

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| IND.   | POS.NO.    | PART NO. | VALUE                             | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--------|------------|----------|-----------------------------------|-----------------------------|--------|
| R...23 | 57.11.3102 | 1 kOhm   | 1X 0.25W MF                       |                             |        |
| R...24 | 57.11.3105 | 1 MOhm   | 1X 0.25W MF                       |                             |        |
| R...25 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...26 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...27 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...28 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...30 | 57.11.3393 | 39 kOhm  | 1X 0.25W MF                       |                             |        |
| R...31 | 57.11.3242 | 2.4 kOhm | 1X 0.25W MF                       |                             |        |
| R...32 | 57.11.3332 | 3.3 kOhm | 1X 0.25W MF                       |                             |        |
| R...33 | 57.11.3822 | 8.2 kOhm | 1X 0.25W MF                       |                             |        |
| R...34 | 57.11.3152 | 1.5 kOhm | 1X 0.25W MF                       |                             |        |
| R...35 | 57.11.3221 | 220 Ohm  | 1X 0.25W MF                       |                             |        |
| R...36 | 57.11.3333 | 33 kOhm  | 1X 0.25W MF                       |                             |        |
| R...37 | 57.11.3133 | 13 kOhm  | 1X 0.25W MF                       |                             |        |
| R...38 | 58.01.8103 | 10 kOhm  | 10X 0.5 W CERMET, lin. Triapopot. |                             |        |
| R...39 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...40 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...41 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...42 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...43 | 57.11.3682 | 6.8 kOhm | 1X 0.25W MF                       |                             |        |
| R...44 | 57.11.3332 | 3.3 kOhm | 1X 0.25W MF                       |                             |        |
| R...46 | 57.11.3103 | 10 kOhm  | 1X 0.25W MF                       |                             |        |
| R...47 | 57.11.3472 | 4.7 kOhm | 1X 0.25W MF                       |                             |        |
| R...48 | 57.11.3222 | 2.2 kOhm | 1X 0.25W MF                       |                             |        |
| R...50 | 57.11.3104 | 100 kOhm | 1X 0.25W MF                       |                             |        |
| R...51 | 57.11.3562 | 5.6 kOhm | 1X 0.25W MF                       |                             |        |
| R...52 | 57.11.3153 | 15 kOhm  | 1X 0.25W MF                       |                             |        |
| R...53 | 57.11.3153 | 15 kOhm  | 1X 0.25W MF                       |                             |        |
| R...54 | 57.11.3562 | 5.6 kOhm | 1X 0.25W MF                       |                             |        |
| R...55 | 57.11.3562 | 5.6 kOhm | 1X 0.25W MF                       |                             |        |
| R...56 | 57.11.3562 | 5.6 kOhm | 1X 0.25W MF                       |                             |        |
| R...57 | 57.11.3221 | 220 Ohm  | 1X 0.25W MF                       |                             |        |
| R...58 | 57.11.5475 | 4.7 MOhm | 5X 0.25W MF                       |                             |        |
| R...59 | 57.11.3104 | 100 kOhm | 1X 0.25W MF                       |                             |        |
| R...60 | 57.11.3102 | 1 kOhm   | 1X 0.25W MF                       |                             |        |
| R...61 | 57.11.3331 | 330 Ohm  | 1X 0.25W MF                       |                             |        |
| R...62 | 57.11.3392 | 3.9 kOhm | 1X 0.25W MF                       |                             |        |

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| IND.    | POS.NO.    | PART NO.  | VALUE                          | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|-----------|--------------------------------|-----------------------------|--------|
| R...142 | 57.11.3102 | 1 kOhm    | 1X 0.25W MF                    |                             |        |
| R...143 | 57.11.3332 | 3.3 kOhm  | 1X 0.25W MF                    |                             |        |
| R...145 | 57.56.5108 | 0.1 Ohm   | 10X 4.0 W Wire                 |                             |        |
| R...145 | 57.56.5478 | 0.47 Ohm  | 10X 4.0 W Wire                 |                             |        |
| R...146 | 57.56.5108 | 0.1 Ohm   | 10X 4.0 W Wire                 |                             |        |
| R...146 | 57.56.5478 | 0.47 Ohm  | 10X 4.0 W Wire                 |                             |        |
| R...147 | 57.11.3152 | 1.5 kOhm  | 1X 0.25W MF                    |                             |        |
| R...148 | 57.11.3562 | 5.6 kOhm  | 1X 0.25W MF                    |                             |        |
| R...149 | 57.11.3562 | 5.6 kOhm  | 1X 0.25W MF                    |                             |        |
| R...150 | 57.11.3152 | 1.5 kOhm  | 1X 0.25W MF                    |                             |        |
| R...151 | 57.11.3392 | 3.9 kOhm  | 1X 0.25W MF                    |                             |        |
| R...152 | 57.11.3102 | 1 kOhm    | 1X 0.25W MF                    |                             |        |
| R...153 | 57.11.3472 | 4.7 kOhm  | 1X 0.25W MF                    |                             |        |
| R...154 | 57.11.3152 | 1.5 kOhm  | 1X 0.25W MF                    |                             |        |
| R...155 | 57.11.3120 | 12 Ohm    | 1X 0.25W MF                    |                             |        |
| R...155 | 57.19.0330 | 33 Ohm    | 5X 0.33W / 1\ fusible resistor |                             |        |
| R...160 | 57.11.3120 | 12 Ohm    | 1X 0.25W MF                    |                             |        |
| R...156 | 57.19.0330 | 33 Ohm    | 5X 0.33W / 1\ fusible resistor |                             |        |
| R...157 | 57.11.3479 | 4.7 Ohm   | 1X 0.25W MF                    |                             |        |
| R...157 | 57.19.0479 | 4.7 Ohm   | 5X 0.33W / 1\ fusible resistor |                             |        |
| R...158 | 57.11.3479 | 4.7 Ohm   | 1X 0.25W MF                    |                             |        |
| R...158 | 57.19.0479 | 4.7 Ohm   | 5X 0.33W / 1\ fusible resistor |                             |        |
| R...159 | 57.11.3120 | 12 Ohm    | 1X 0.25W MF                    |                             |        |
| R...160 | 57.11.3120 | 12 Ohm    | 1X 0.25W MF                    |                             |        |
| R...161 | 57.11.3822 | 8.2 kOhm  | 1X 0.25W MF                    |                             |        |
| R...162 | 57.11.3563 | 56 kOhm   | 1X 0.25W MF                    |                             |        |
| R...164 | 57.11.3473 | 47 kOhm   | 1X 0.25W MF                    |                             |        |
| R...165 | 57.11.3154 | 150 kOhm  | 1X 0.25W MF                    |                             |        |
| R...166 | 57.11.3223 | 22 kOhm   | 1X 0.25W MF                    |                             |        |
| R...167 | 57.11.5225 | 2.2 MOhm  | 5X 0.25W MF                    |                             |        |
| RZ...1  | 57.88.4103 | 8x10 kOhm | 5X Single Line                 |                             |        |
| TP...1  | 54.02.0320 | 1 Pole    | Tab                            |                             |        |
| TP...2  | 54.02.0320 | 1 Pole    | Tab                            |                             |        |
| TP...3  | 54.02.0320 | 1 Pole    | Tab                            |                             |        |
| TP...4  | 54.02.0320 | 1 Pole    | Tab                            |                             |        |

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| IND.    | POS.NO.      | PART NO.  | VALUE                            | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|--------------|-----------|----------------------------------|-----------------------------|--------|
| MP...7  | 50.20.0404   | 2 pce     | Insulating pass through D6.0/3.5 |                             |        |
| MP...8  | 1.010.098.27 | 2 pce     | Distance socket D3.1/7.0 x 2.3   | St                          |        |
| MP...9  | 50.20.0305   | 2 pce     | Greased insulation for TO 220    |                             |        |
| MP...10 | 1.727.335.10 | 1 pce     | No. label                        | St                          |        |
| MP...11 | 1.727.331.01 | 1 pce     | No. label                        | St                          |        |
| MP...12 | 43.01.0108   | 1 pce     | ESE label                        |                             |        |
| MP...13 | 1.101.001.20 | 1 pce     | Hardware label -20               | St                          |        |
| P...1   | 54.02.0320   | 1 Pole    | Tab                              |                             |        |
| P...2   | 54.02.0320   | 1 Pole    | Tab                              |                             |        |
| P...3   | 54.02.0320   | 1 Pole    | Tab                              |                             |        |
| P...4   | 54.02.0320   | 1 Pole    | Tab                              |                             |        |
| P...5   | 54.02.0320   | 1 Pole    | Tab                              |                             |        |
| Q...1   | 50.03.0514   | BF 366    |                                  | NPN                         | Mot    |
| Q...2   | 50.03.0340   | BC 327-25 |                                  | NPN                         |        |
| Q...3   | 50.03.0351   | BC 327-25 |                                  | PNP                         |        |
| Q...4   | 50.03.0351   | BC 327-25 |                                  | PNP                         |        |
| Q...5   | 50.03.0491   | BC 546 B  |                                  | NPN                         |        |
| Q...6   | 50.03.0749   | BD 679    | Darl.                            | NPN (see note 1) Ph/SGS     |        |
| Q...7   | 50.03.0799   | BD 680    | Darl.                            | PNP (see note 1) Ph/SGS     |        |
| Q...8   | 50.03.0351   | BC 327-25 |                                  | PNP                         |        |
| Q...9   | 50.03.0491   | BC 546 B  |                                  | NPN                         |        |
| Q...10  | 50.03.0749   | BD 679    | Darl.                            | NPN (see note 1) Ph/SGS     |        |
| Q...11  | 50.03.0799   | BD 680    | Darl.                            | PNP (see note 1) Ph/SGS     |        |
| Q...12  | 50.03.0351   | BC 327-25 |                                  | PNP                         |        |
| Q...13  | 50.03.0491   | BC 546 B  |                                  | NPN                         |        |
| Q...14  | 50.03.0749   | BD 679    | Darl.                            | NPN (see note 1) Ph/SGS     |        |
| Q...15  | 50.03.0799   | BD 680    | Darl.                            | PNP (see note 1) Ph/SGS     |        |
| Q...16  | 50.03.0436   | BC 237 B  | BC 547 B BC 550 B                | NPN                         |        |
| Q...17  | 50.03.0436   | BC 237 B  | BC 547 B BC 550 B                | NPN                         |        |
| Q...18  | 50.03.0340   | BC 337-25 |                                  | NPN                         |        |
| Q...19  | 50.03.0340   | BC 337-25 |                                  | NPN                         |        |
| Q...20  | 50.03.0340   | BC 337-25 |                                  | NPN                         |        |
| Q...21  | 50.03.0340   | BC 337-25 |                                  | NPN                         |        |
| Q...22  | 50.03.0351   | BC 327-25 |                                  | PNP                         |        |
| Q...23  | 50.03.0340   | BC 337-25 |                                  | NPN                         |        |

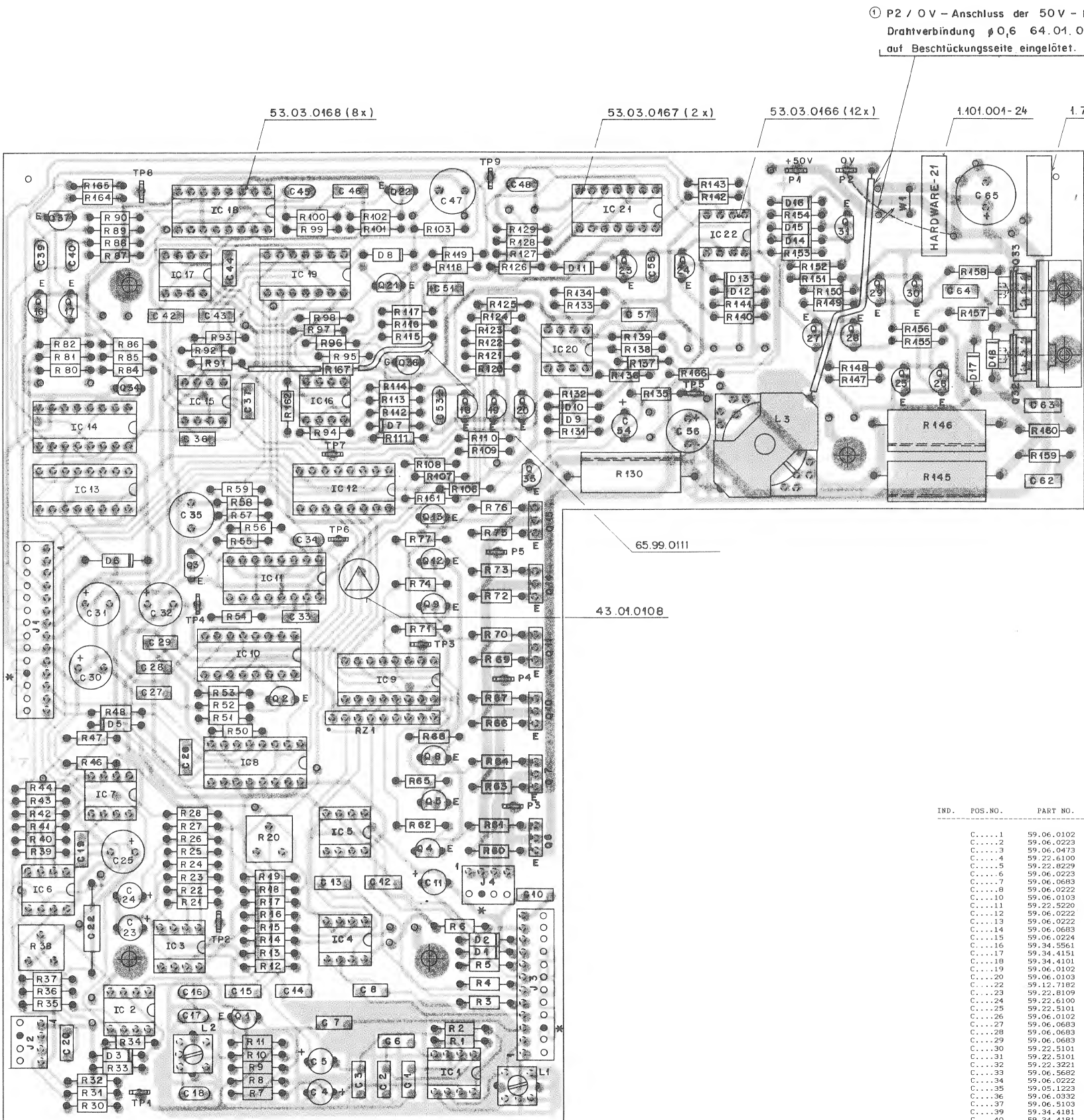
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| IND.    | POS.NO.    | PART NO. | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|-------------|-----------------------------|--------|
| R...63  | 57.11.3222 | 2.2 kOhm | 1X 0.25W MF |                             |        |
| R...64  | 57.11.3152 | 1.5 kOhm | 1X 0.25W MF |                             |        |
| R...65  | 57.11.3332 | 3.3 kOhm | 1X 0.25W MF |                             |        |
| R...66  | 57.11.3102 | 1 kOhm   | 1X 0.25W MF |                             |        |
| R...67  | 57.11.3331 | 330 Ohm  | 1X 0.25W MF |                             |        |
| R...68  | 57.11.3392 | 3.9 kOhm | 1X 0.25W MF |                             |        |
| R...69  | 57.11.3222 | 2.2 kOhm | 1X 0.25W MF |                             |        |
| R...70  | 57.11.3152 | 1.5 kOhm | 1X 0.25W MF |                             |        |
| R...71  | 57.11.3332 | 3.3 kOhm | 1X 0.25W MF |                             |        |
| R...72  | 57.11.3102 | 1 kOhm   | 1X 0.25W MF |                             |        |
| R...73  | 57.11.3331 | 330 Ohm  | 1X 0.25W MF |                             |        |
| R...74  | 57.11.3392 | 3.9 kOhm | 1X 0.25W MF |                             |        |
| R...75  | 57.11.3222 | 2.2 kOhm | 1X 0.25W MF |                             |        |
| R...76  | 57.11.3152 | 1.5 kOhm | 1X 0.25W MF |                             |        |
| R...77  | 57.11.3332 | 3.3 kOhm | 1X 0.25W MF |                             |        |
| R...80  | 57.11.3682 | 6.8 kOhm | 1X 0.25W MF |                             |        |
| R...81  | 57.11.3333 | 33 kOhm  | 1X 0.25W MF |                             |        |
| R...82  | 57.11.3333 | 33 kOhm  | 1X 0.25W MF |                             |        |
| R...84  | 57.11.3332 | 3.3 kOhm | 1X 0.25W MF |                             |        |
| R...85  | 57.11.3333 | 33 kOhm  | 1X 0.25W MF |                             |        |
| R...86  | 57.11.3333 | 33 kOhm  | 1X 0.25W MF |                             |        |
| R...87  | 57.11.3474 | 470 kOhm | 1X 0.25W MF |                             |        |
| R...88  | 57.11.3223 | 22 kOhm  | 1X 0.25W MF |                             |        |
| R...89  | 57.11.3223 | 22 kOhm  | 1X 0.25W MF |                             |        |
| R...90  | 57.11.3222 | 2.2 kOhm | 1X 0.25W MF |                             |        |
| R...91  | 57.11.3104 | 100 kOhm | 1X 0.25W MF |                             |        |
| R...92  | 57.11.3122 | 1.2 kOhm | 1X 0.25W MF |                             |        |
| R...93  | 57.11.3222 | 2.2 kOhm | 1X 0.25W MF |                             |        |
| R...94  | 57.11.3104 | 100 kOhm | 1X 0.25W MF |                             |        |
| R...96  | 57.11.3105 | 1 MOhm   | 1X 0.25W MF |                             |        |
| R...97  | 57.11.3563 | 56 kOhm  | 1X 0.25W MF |                             |        |
| R...98  | 57.11.3104 | 100 kOhm | 1X 0.25W MF |                             |        |
| R...99  | 57.11.3562 | 5.6 kOhm | 1X 0.25W MF |                             |        |
| R...100 | 57.11.3562 | 5.6 kOhm | 1X 0.25W MF |                             |        |
| R...101 | 57.11.3221 | 220 Ohm  | 1X 0.25W MF |                             |        |
| R...102 | 57.11.3562 | 5.6 kOhm | 1X 0.25W MF |                             |        |

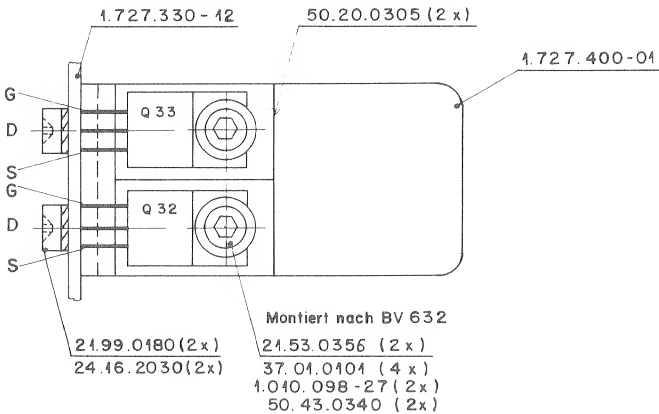
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| IND.     | POS.NO.      | PART NO. | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|--------------|----------|-------------|-----------------------------|--------|
| TP...5   | 54.02.0320   | 1 Pole   | Tab         |                             |        |
| TP...6   | 54.02.0320   | 1 Pole   | Tab         |                             |        |
| TP...7   | 54.02.0320   | 1 Pole   | Tab         |                             |        |
| TP...8   | 54.02.0320   | 1 Pole   | Tab         |                             |        |
| TP...9   | 54.02.0320   | 1 Pole   | Tab         |                             |        |
| W...1    | 1.010.321.64 |          | Wire Bridge |                             |        |
| XIC...1  | 53.03.0166   | 8 Pole   | IC socket   |                             |        |
| XIC...2  | 53.03.0166   | 8 Pole   | IC socket   |                             |        |
| XIC...3  | 53.03.0166   | 8 Pole   | IC socket   |                             |        |
| XIC...4  | 53.03.0166   | 8 Pole   | IC socket   |                             |        |
| XIC...5  | 53.03.0166   | 8 Pole   | IC socket   |                             |        |
| XIC...6  | 53.03.0166   | 8 Pole   | IC socket   |                             |        |
| XIC...7  | 53.03.0166   | 8 Pole   | IC socket   |                             |        |
| XIC...8  | 53.03.0168   | 16 Pole  | IC socket   |                             |        |
| XIC...9  | 53.03.0168   | 16 Pole  | IC socket   |                             |        |
| XIC...10 | 53.03.0168   | 16 Pole  | IC socket   |                             |        |
| XIC...11 | 53.03.0168   | 16 Pole  | IC socket   |                             |        |

CAPSTAN MOTOR CONTROL HS 1.727.335.21



ONLY FOR INDEX .21



| IND.    | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO.   | VALUE                        | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|-------|-----------------------------|--------|---------|------------|------------|------------------------------|-----------------------------|--------|
| C....1  | 59.06.0102 | 1 nF     | 10X   | 63 V PETP                   |        | C....42 | 59.06.0332 | 3.3 nF     | 10X                          | 63 V PETP                   |        |
| C....2  | 59.06.0223 | 22 nF    | 10X   | 63 V PETP                   |        | C....43 | 59.06.0103 | 10 nF      | 10X                          | 63 V PETP                   |        |
| C....3  | 59.06.0473 | 47 nF    | 10X   | 63 V PETP                   |        | C....44 | 59.06.0332 | 3.3 nF     | 10X                          | 63 V PETP                   |        |
| C....4  | 59.22.6100 | 10 uF    | -20X  | 35 V EL                     |        | C....45 | 59.06.0222 | 2.2 nF     | 10X                          | 63 V PETP                   |        |
| C....5  | 59.22.8229 | 2.2 uF   | -20X  | 50 V EL                     |        | C....46 | 59.06.5682 | 6.8 nF     | 5X                           | 63 V PETP                   |        |
| C....6  | 59.06.0223 | 22 nF    | 10X   | 63 V PETP                   |        | C....47 | 59.05.1223 | 22 nF      | 1X                           | 63 V PP                     |        |
| C....7  | 59.06.0683 | 68 nF    | 10X   | 63 V PETP                   |        | C....48 | 59.34.4331 | 330 pF     | 5X                           | 63 V CER                    |        |
| C....8  | 59.06.0222 | 2.2 nF   | 10X   | 63 V PETP                   |        | C....49 | 59.26.5229 | 2.2 uF     | 20X                          | 25 V SAL                    | Ph     |
| C....9  | 59.06.0103 | 10 nF    | 10X   | 63 V PETP                   |        | C....50 | 59.26.0680 | 68 nF      | 20X                          | 6.3 V SAL                   | Ph     |
| C....10 | 59.22.5220 | 22 uF    | -20X  | 25 V EL                     |        | C....51 | 59.22.6100 | 10 uF      | -20X                         | 35 V EL                     |        |
| C....11 | 59.06.0222 | 2.2 nF   | 10X   | 63 V PETP                   |        | C....52 | 59.22.8101 | 10 uF      | -20X                         | 63 V EL                     |        |
| C....12 | 59.06.0222 | 2.2 nF   | 10X   | 63 V PETP                   |        | C....53 | 59.06.0683 | 68 nF      | 10X                          | 63 V PETP                   |        |
| C....13 | 59.06.0222 | 2.2 nF   | 10X   | 63 V PETP                   |        | C....54 | 59.34.5561 | 560 pF     | 5X                           | 63 V CER                    |        |
| C....14 | 59.06.0683 | 68 nF    | 10X   | 63 V PETP                   |        | C....55 | 59.06.0222 | 2.2 nF     | 10X                          | 63 V PETP                   |        |
| C....15 | 59.06.0224 | 220 nF   | 10X   | 63 V PETP                   |        | C....62 | 59.06.0222 | 2.2 nF     | 10X                          | 63 V PETP                   |        |
| C....16 | 59.34.5561 | 560 pF   | 5X    | 63 V CER                    |        | C....63 | 59.06.0683 | 68 nF      | 10X                          | 63 V PETP                   |        |
| C....17 | 59.34.4151 | 150 pF   | 5X    | 63 V CER                    |        | C....64 | 59.22.8221 | 220 uF     | -20X                         | 63 V EL                     |        |
| C....18 | 59.34.4101 | 100 pF   | 5X    | 63 V CER                    |        | C....65 | 59.22.8221 | 220 uF     | -20X                         | 63 V EL                     |        |
| C....19 | 59.06.0102 | 1 nF     | 10X   | 63 V PETP                   |        | D....1  | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....20 | 59.06.0103 | 10 nF    | 10X   | 63 V PETP                   |        | D....2  | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....21 | 59.12.7182 | 1.8 nF   | 1X    | 63 V PS -150 +60ppm/K       |        | D....3  | 50.04.1101 | 3.9 V      | 5X                           | 0.4 W                       |        |
| C....22 | 59.22.8109 | 1 uF     | -20X  | 50 V EL                     |        | D....4  | 50.04.1112 | 5.1 V      | 5X                           | 0.4 W                       |        |
| C....23 | 59.22.6100 | 10 uF    | -20X  | 35 V EL                     |        | D....5  | 50.04.0512 | 1N5818     | 30 V IN5819 Schottky         |                             |        |
| C....24 | 59.22.5101 | 100 uF   | -20X  | 25 V EL                     |        | D....6  | 50.04.1112 | 5.1 V      | 5X                           | 0.4 W                       |        |
| C....25 | 59.06.0102 | 1 nF     | 10X   | 63 V PETP                   |        | D....7  | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....26 | 59.06.0683 | 68 nF    | 10X   | 63 V PETP                   |        | D....8  | 50.04.0134 | 1N3595 DHD | 150 V I rev <1 nA @ 125 V    |                             | Fe     |
| C....27 | 59.06.0683 | 68 nF    | 10X   | 63 V PETP                   |        | D....9  | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....28 | 59.06.0683 | 68 nF    | 10X   | 63 V PETP                   |        | D....10 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....29 | 59.06.0683 | 68 nF    | 10X   | 63 V PETP                   |        | D....11 | 50.04.0127 | BAS 40-02  | 30 V BAT 85, BAT 42 Schottky |                             | Sie,Ph |
| C....30 | 59.22.5101 | 100 uF   | -20X  | 25 V EL                     |        | D....12 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....31 | 59.22.5101 | 100 uF   | -20X  | 25 V EL                     |        | D....13 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....32 | 59.22.3221 | 220 uF   | -20X  | 10 V EL                     |        | D....14 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....33 | 59.06.5682 | 6.8 nF   | 5X    | 63 V PETP                   |        | D....15 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....34 | 59.06.0222 | 2.2 nF   | 10X   | 63 V PETP                   |        | D....16 | 50.04.0125 | 1N4448     | 50 V                         |                             |        |
| C....35 | 59.05.1223 | 22 nF    | 1X    | 63 V PP                     |        | D....17 | 50.04.0508 | 1N4935     | 200 V 1N4936 RG1D            |                             | Mot,GI |
| C....36 | 59.06.0332 | 3.3 nF   | 10X   | 63 V PETP                   |        | D....18 | 50.04.0508 | 1N4935     | 200 V 1N4936 RG1D            |                             | Mot,GI |
| C....37 | 59.06.5103 | 10 nF    | 5X    | 63 V PETP                   |        | IC....1 | 50.11.0137 | TBA 129    | FM-ZF-Amp.,Discriminator     |                             | Ph     |
| C....38 | 59.34.4181 | 180 pF   | 5X    | 63 V CER                    |        |         |            |            |                              |                             |        |
| C....39 | 59.34.4181 | 180 pF   | 5X    | 63 V CER                    |        |         |            |            |                              |                             |        |
| C....40 | 59.34.4181 | 180 pF   | 5X    | 63 V CER                    |        |         |            |            |                              |                             |        |

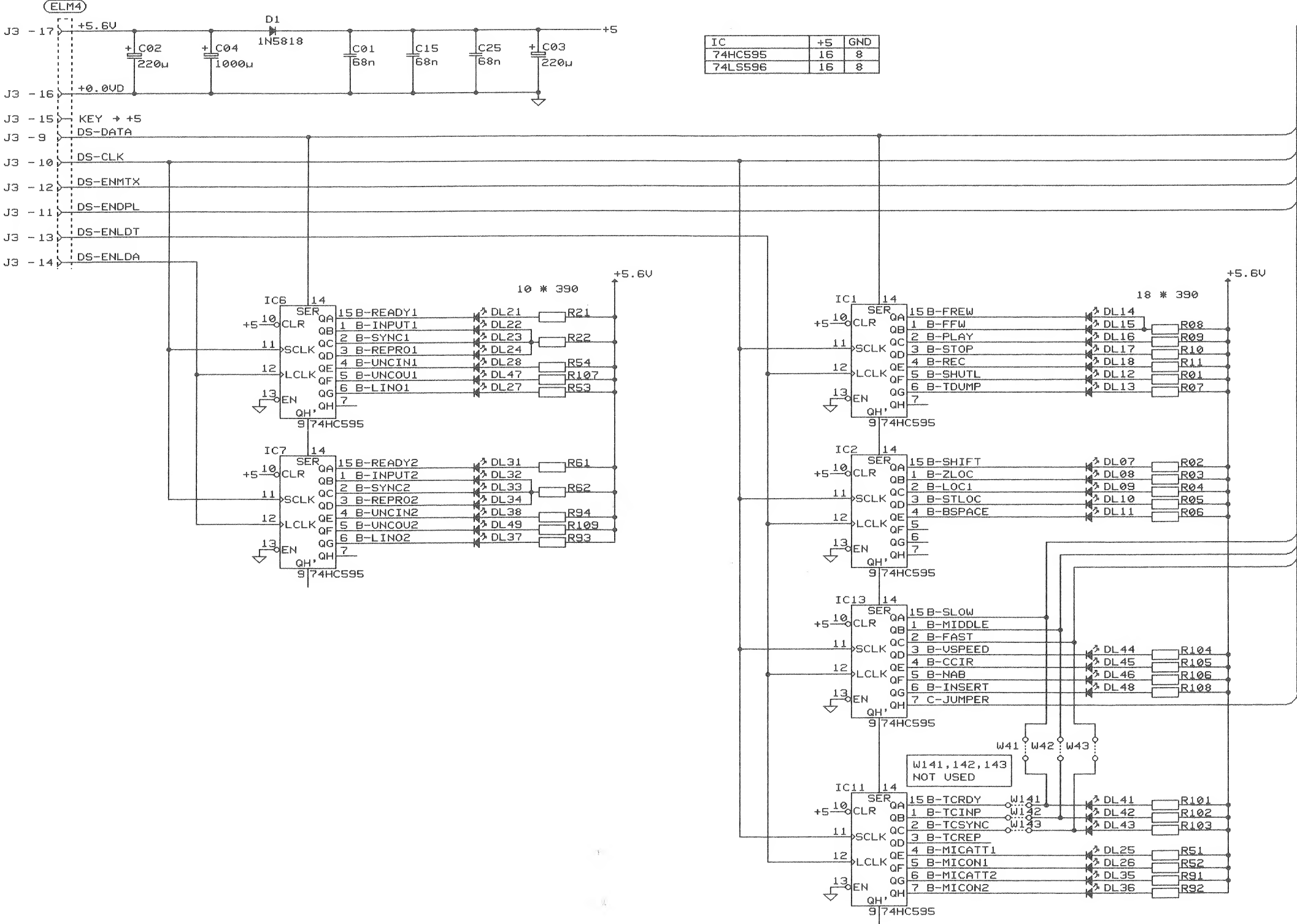


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| S T U D E R (02) 90/11/07 GP |         |              |           |                                  |        | S T U D E R (02) 90/11/07 GP |            |          |       |                             |        | S T U D E R (02) 90/11/07 GP |              |          |             |                             |        | S T U D E R (02) 90/11/07 GP |          |            |         |                             |        |
|------------------------------|---------|--------------|-----------|----------------------------------|--------|------------------------------|------------|----------|-------|-----------------------------|--------|------------------------------|--------------|----------|-------------|-----------------------------|--------|------------------------------|----------|------------|---------|-----------------------------|--------|
| IND.                         | POS.NO. | PART NO.     | VALUE     | SPECIFICATIONS / EQUIVALENT      | MANUF. | IND.                         | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.                         | POS.NO.      | PART NO. | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.                         | POS.NO.  | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|                              | MP...7  | 50.20.0404   | 2 pec     | Insulating pass through D6.0/3.5 |        | R...62                       | 57.11.3392 | 3.9 kOhm | 1%    | 0.25W, MF                   |        | TP...4                       | 54.02.0320   | 1 Pole   | Tab         |                             |        |                              | TP...4   | 54.02.0320 | 1 Pole  | Tab                         |        |
|                              | MP...8  | 1.010.098.27 | 2 pec     | Distance socket D3.1/7.0 * 2.3   | St     | R...63                       | 57.11.3222 | 2.2 kOhm | 1%    | 0.25W, MF                   |        | TP...5                       | 54.02.0320   | 1 Pole   | Tab         |                             |        |                              | TP...5   | 54.02.0320 | 1 Pole  | Tab                         |        |
|                              | MP...9  | 50.20.0305   | 1 pec     | Greased insulation for TO 220    |        | R...64                       | 57.11.3152 | 1.5 kOhm | 1%    | 0.25W, MF                   |        | TP...6                       | 54.02.0320   | 1 Pole   | Tab         |                             |        |                              | TP...6   | 54.02.0320 | 1 Pole  | Tab                         |        |
|                              | MP...10 | 1.727.331.01 | 1 pec     | No. label                        | St     | R...65                       | 57.11.3332 | 3.3 kOhm | 1%    | 0.25W, MF                   |        | TP...7                       | 54.02.0320   | 1 Pole   | Tab         |                             |        |                              | TP...7   | 54.02.0320 | 1 Pole  | Tab                         |        |
|                              | MP...11 | 1.727.331.01 | 1 pec     | No. label 5 x 17                 | St     | R...66                       | 57.11.3102 | 1 kOhm   | 1%    | 0.25W, MF                   |        | TP...8                       | 54.02.0320   | 1 Pole   | Tab         |                             |        |                              | TP...8   | 54.02.0320 | 1 Pole  | Tab                         |        |
|                              | MP...12 | 43.01.0108   | 1 pec     | ESE label                        |        | R...67                       | 57.11.3331 | 330 Ohm  | 1%    | 0.25W, MF                   |        | TP...9                       | 54.02.0320   | 1 Pole   | Tab         |                             |        |                              | TP...9   | 54.02.0320 | 1 Pole  | Tab                         |        |
|                              | MP...13 | 1.101.001.20 | 1 pec     | Hardware label -20               | St     | R...68                       | 57.11.3392 | 3.9 kOhm | 1%    | 0.25W, MF                   |        |                              |              |          |             |                             |        |                              |          |            |         |                             |        |
|                              |         |              |           |                                  |        | R...69                       | 57.11.3222 | 2.2 kOhm | 1%    | 0.25W, MF                   |        | W...1                        | 1.010.321.64 |          | Wire Bridge |                             |        |                              |          |            |         |                             |        |
|                              | P...1   | 54.02.0320   | 1 Pole    | Tab                              |        | R...70                       | 57.11.3152 | 1.5 kOhm | 1%    | 0.25W, MF                   |        | XIC...1                      | 53.03.0166   | 8 Pole   | IC socket   |                             |        |                              | XIC...1  | 53.03.0166 | 8 Pole  | IC socket                   |        |
|                              | P...2   | 54.02.0320   | 1 Pole    | Tab                              |        | R...71                       | 57.11.3332 | 3.3 kOhm | 1%    | 0.25W, MF                   |        | XIC...2                      | 53.03.0166   | 8 Pole   | IC socket   |                             |        |                              | XIC...2  | 53.03.0166 | 8 Pole  | IC socket                   |        |
|                              | P...3   | 54.02.0320   | 1 Pole    | Tab                              |        | R...72                       | 57.11.3102 | 1 kOhm   | 1%    | 0.25W, MF                   |        | XIC...3                      | 53.03.0166   | 8 Pole   | IC socket   |                             |        |                              | XIC...3  | 53.03.0166 | 8 Pole  | IC socket                   |        |
|                              | P...4   | 54.02.0320   | 1 Pole    | Tab                              |        | R...73                       | 57.11.3331 | 330 Ohm  | 1%    | 0.25W, MF                   |        | XIC...4                      | 53.03.0166   | 8 Pole   | IC socket   |                             |        |                              | XIC...4  | 53.03.0166 | 8 Pole  | IC socket                   |        |
|                              | P...5   | 54.02.0320   | 1 Pole    | Tab                              |        | R...74                       | 57.11.3392 | 3.9 kOhm | 1%    | 0.25W, MF                   |        | XIC...5                      | 53.03.0166   | 8 Pole   | IC socket   |                             |        |                              | XIC...5  | 53.03.0166 | 8 Pole  | IC socket                   |        |
| (00)                         | Q...1   | 50.03.0514   | BF 366    | NPN                              | Not    | R...75                       | 57.11.3222 | 2.2 kOhm | 1%    | 0.25W, MF                   |        | XIC...6                      | 53.03.0166   | 16 Pole  | IC socket   |                             |        |                              | XIC...6  | 53.03.0166 | 16 Pole | IC socket                   |        |
| (02)                         | Q...1   | 50.03.0577   | BF 496    | NPN                              | Not    | R...76                       | 57.11.3152 | 1.5 kOhm | 1%    | 0.25W, MF                   |        | XIC...7                      | 53.03.0166   | 16 Pole  | IC socket   |                             |        |                              | XIC...7  | 53.03.0166 | 16 Pole | IC socket                   |        |
|                              | Q...2   | 50.03.0340   | BC 327-25 | NPN                              |        | R...77                       | 57.11.3332 | 3.3 kOhm | 1%    | 0.25W, MF                   |        | XIC...8                      | 53.03.0166   | 16 Pole  | IC socket   |                             |        |                              | XIC...8  | 53.03.0166 | 16 Pole | IC socket                   |        |
|                              | R...3   | 50.03.0351   | BC 327-25 | NPN                              |        | R...80                       | 57.11.3682 | 6.8 kOhm | 1%    | 0.25W, MF                   |        | XIC...9                      | 53.03.0166   | 16 Pole  | IC socket   |                             |        |                              | XIC...9  | 53.03.0166 | 16 Pole | IC socket                   |        |
|                              | Q...4   | 50.03.0351   | BC 327-25 | NPN                              |        | R...81                       | 57.11.3333 | 33 kOhm  | 1%    | 0.25W, MF                   |        | XIC...10                     | 53.03.0166   | 16 Pole  | IC socket   |                             |        |                              | XIC...10 | 53.03.0166 | 16 Pole | IC socket                   |        |
|                              | Q...5   | 50.03.0491   | BC 546 B  | NPN                              |        | R...82                       | 57.11.3333 | 33 kOhm  | 1%    | 0.25W, MF                   |        | XIC...11                     | 53.03.0166   | 16 Pole  | IC socket   |                             |        |                              | XIC...11 | 53.03.0166 | 16 Pole | IC socket                   |        |
|                              | Q...6   | 50.03.0749   | BD 679    | Darl.                            |        | R...85                       | 57.11.3333 | 33 kOhm  | 1%    | 0.25W, MF</                 |        |                              |              |          |             |                             |        |                              |          |            |         |                             |        |

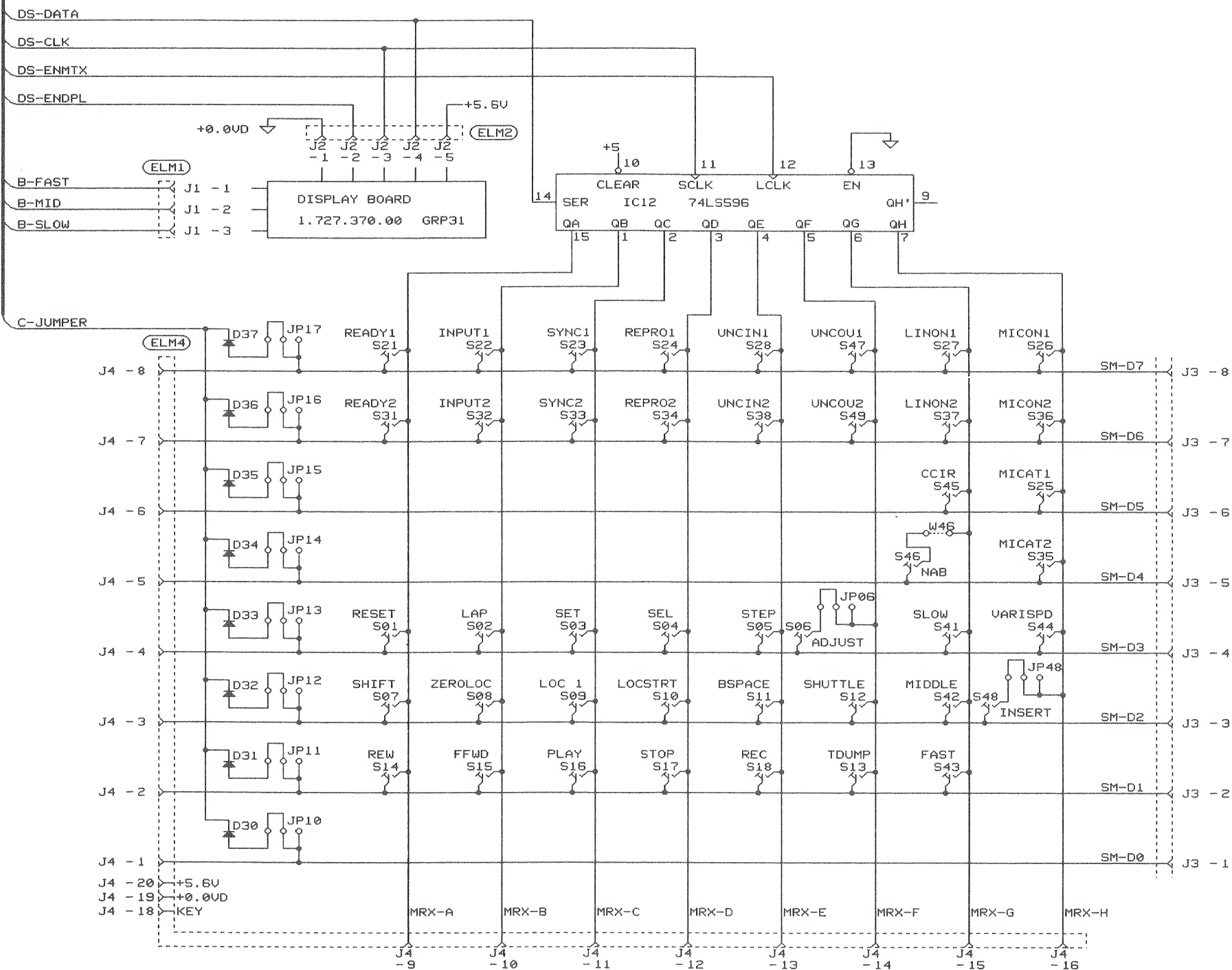
COMMAND PANEL BOARD 2VU (2CH) 1.727.662.00



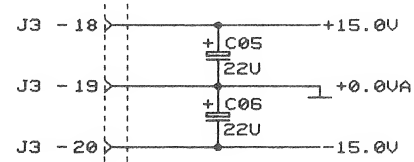
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COMMAND PANEL BOARD 2VU (2CH) 1.727.662.00

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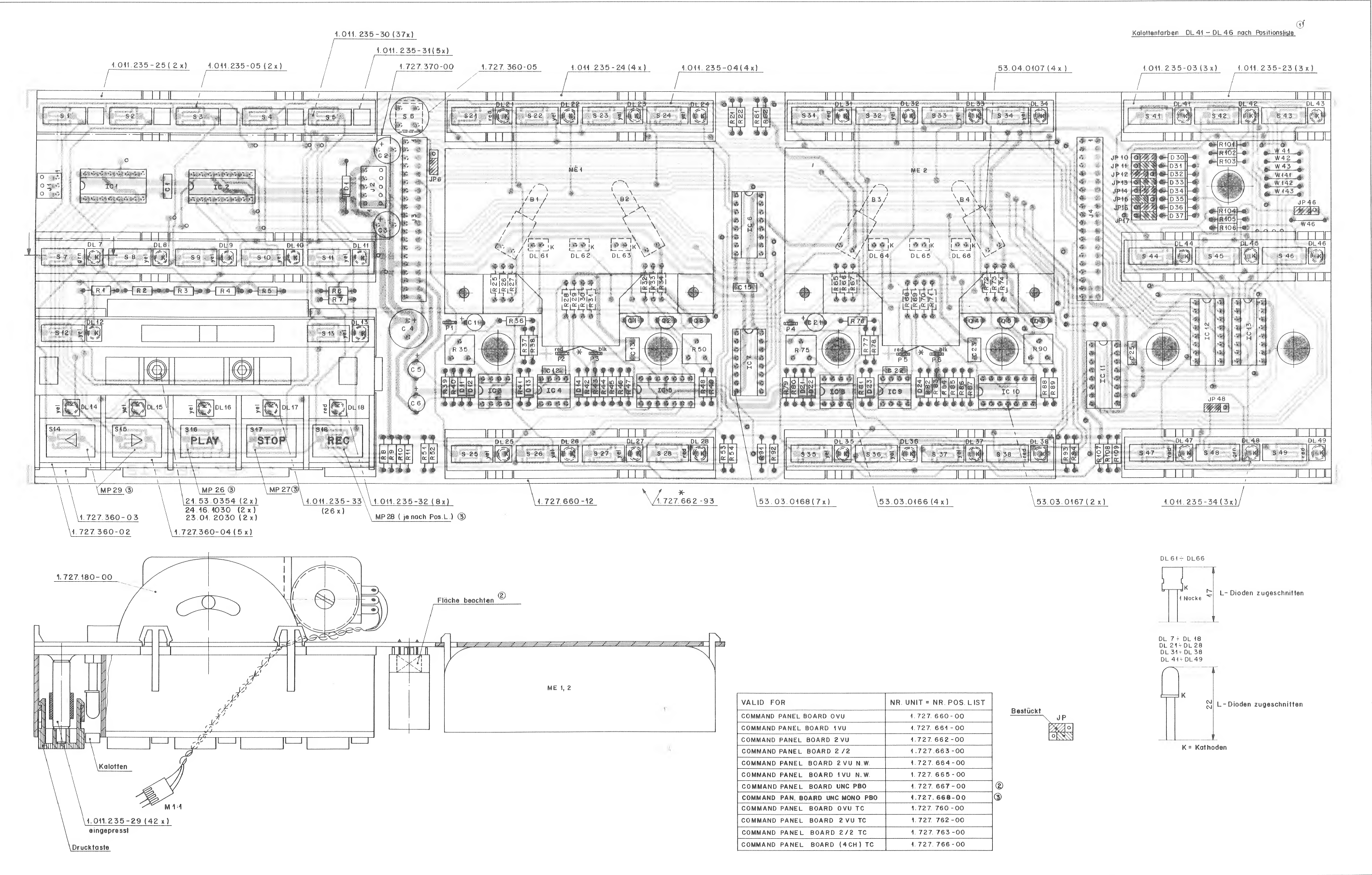
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| 29.01.90 GP     | 05.03.90 DS | 13.11.90 DS             |                  |
| A 807 VU GRP 30 |             |                         | PAGE 2 OF 3      |
| STUDER          |             | COMMAND PANEL BOARD 2VU | SCH 1.727.662-00 |



|               |                         |               |              |             |
|---------------|-------------------------|---------------|--------------|-------------|
| ② 29.01.90 GP | ① 05.03.90 GP           | ② 13.11.90 DS | ○            | ○           |
|               | A 807 UU GRP 30         |               |              | PAGE 3 OF 3 |
| STUDER        | COMMAND PANEL BOARD 2UU | SCH           | 1.727.662-00 |             |



COMMAND PANEL BOARD 2VU (2CH) 1.727.662.00



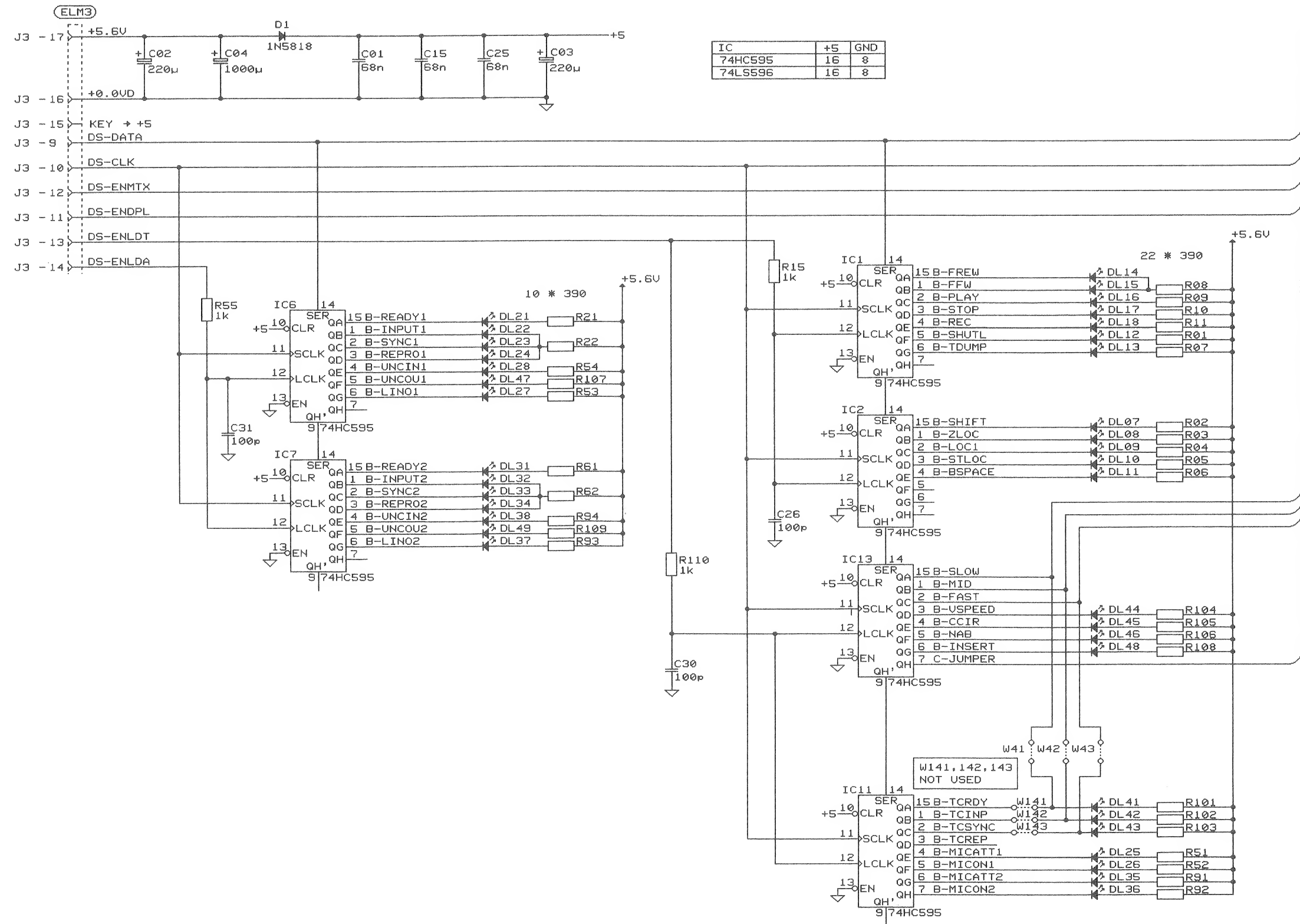
## COMMAND PANEL BOARD 2VU (2CH) 1.727.662.00

| IND.  | POS.NO.      | PART NO. | VALUE                | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT           | MANUF. |
|---|--------------|----------|----------------------|-----------------------------|--------|---|--------------|----------|-------------------|---------------------------------------|--------|
| A.....1   | 1.727.370.00 |          |                      | Display Board               |        | JP...16   | 54.01.0021   |          |                   | Bridge                                |        |
| A.....2   | 1.727.180.00 |          |                      | Shuttle Control             |        | JP...17   | 54.01.0021   |          |                   | Bridge                                |        |
| B.....1   | 51.02.0144   | 6 V      | 0.03 A               | Lamp                        |        | JP...46   |              |          |                   | not used                              |        |
| B.....2   | 51.02.0144   | 6 V      | 0.03 A               | Lamp                        |        | JP...48   | 54.01.0021   |          |                   | Bridge                                |        |
| B.....3   | 51.02.0144   | 6 V      | 0.03 A               | Lamp                        |        |   |              |          |                   |                                       |        |
| B.....4   | 51.02.0144   | 6 V      | 0.03 A               | Lamp                        |        | ME....1   | 1.727.360.01 |          |                   | VU Meter                              |        |
|   |              |          |                      |                             |        | ME....2   | 1.727.360.01 |          |                   | VU Meter                              |        |
| C.....1   | 59.06.0683   | 68 nF    | 10X 50 V             | PETP                        |        | MP....1   | 54.01.0020   | 30 pcs   |                   | Contact Pin                           |        |
| C.....2   | 59.22.3221   | 220 uF   | -20X 10 V            | EL                          |        | MP....2   | 1.011.235.03 | 3 pcs    |                   | Push button case 3*                   |        |
| C.....3   | 59.22.3221   | 220 uF   | -20X 10 V            | EL                          |        | MP....3   | 1.011.235.04 | 4 pcs    |                   | Push button case 4*                   |        |
| C.....4   | 59.22.3102   | 1000 uF  | -20X 10 V            | EL                          |        | MP....4   | 1.011.235.05 | 2 pcs    |                   | Push button case 5*                   |        |
| C.....5   | 59.22.5220   | 22 uF    | -20X 25 V            | EL                          |        | MP....5   | 1.011.235.23 | 3 pcs    |                   | Conductive rubber 3*                  |        |
| C.....6   | 59.22.5220   | 22 uF    | -20X 25 V            | EL                          |        | MP....6   | 1.011.235.24 | 4 pcs    |                   | Conductive rubber 4*                  |        |
| C.....11  | 59.22.6100   | 10 uF    | -20X 25 V            | EL                          |        | MP....7   | 1.011.235.25 | 2 pcs    |                   | Conductive rubber 5*                  |        |
| C.....12  | 59.34.2220   | 22 pF    | 10X 50 V             | CER                         |        | MP....8   | 1.011.235.29 | 42 pcs   |                   | Bolt                                  |        |
| C.....13  | 59.06.0105   | 1 uF     | 10X 50 V             | PETP                        |        | MP....9   | 1.011.235.30 | 37 pcs   |                   | Push button 14*5                      |        |
| C.....15  | 59.06.0683   | 68 nF    | 10X 50 V             | PETP                        |        | MP....10  | 1.011.235.31 | 5 pcs    |                   | Dummy calotte                         |        |
| C.....21  | 59.22.6100   | 10 uF    | -20X 25 V            | EL                          |        | MP....11  | 1.011.235.32 | 8 pcs    |                   | Calotte red                           |        |
| C.....22  | 59.34.2220   | 22 pF    | 10X 50 V             | CER                         |        | MP....12  | 1.011.235.33 | 26 pcs   |                   | Calotte yel                           |        |
| C.....23  | 59.06.0105   | 1 uF     | 10X 50 V             | PETP                        |        | MP....13  | 1.011.235.34 | 3 pcs    |                   | Calotte grn                           |        |
| C.....25  | 59.06.0683   | 68 nF    | 10X 50 V             | PETP                        |        | MP....14  | 1.727.360.02 | 1 pcs    |                   | Push button case with Shuttle         |        |
| D.....1   | 50.04.0512   | 1N5818   | 30 V                 | Schottky                    |        | MP....15  | 1.727.360.03 | 1 pcs    |                   | Conductive rubber with Shuttle        |        |
| D.....11  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....16  | 1.727.360.04 | 5 pcs    |                   | Push button 19*14                     |        |
| D.....12  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....17  | 1.727.360.05 | 1 pcs    |                   | Push button Adj.                      |        |
| D.....13  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....18  | 1.727.662.10 | 1 pcs    |                   | No. Label                             |        |
| D.....14  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....19  | 1.727.660.12 | 1 pcs    |                   | Command Panel PCB                     |        |
| D.....21  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....20  | 53.03.0021   | 43 pcs   |                   | 2-pole LED Socket                     |        |
| D.....22  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....21  | 1.727.362.93 | 2 pcs    |                   | L-15T Command Panel Board             |        |
| D.....23  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....22  | 21.53.0354   | 2 pcs    |                   | Hexagon socket head cap screw M3*6    |        |
| D.....24  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....23  | 23.01.2032   | 2 pcs    |                   | Washer                                |        |
| D.....25  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....24  | 24.16.1030   | 2 pcs    |                   | Pin washer                            |        |
| D.....30  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | MP....25  | 43.01.0108   | 1 pcs    |                   | ESE Warning label                     |        |
| D.....31  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | (00) MP....26   | 1.727.360.06 | 1 pcs    |                   | Push button labels (<>,PLAY,STOP,REC) |        |
| D.....32  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | (02) MP....26   | 1.727.360.07 | 1 pcs    |                   | Push button label , PLAY              |        |
| D.....33  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | (02) MP....27   | 1.727.360.08 | 1 pcs    |                   | Push button label , STOP              |        |
| D.....34  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | (02) MP....28   | 1.727.360.09 | 1 pcs    |                   | Push button label , RECORD            |        |
| S T U D E R (02) 90/10/25 GP COMMAND PANEL BOARD 2VU PL 1.727.662.00 PAGE 1 |              |          |                      |                             |        | S T U D E R (02) 90/10/25 GP COMMAND PANEL BOARD 2VU PL 1.727.662.00 PAGE 4 |              |          |                   |                                       |        |
| IND.  | POS.NO.      | PART NO. | VALUE                | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT           | MANUF. |
| D...35  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | (02) MP...29  | 1.727.360.19 | 2 pcs    |                   | Push button labels, FORWARD,REWIND    |        |
| D...36  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | P....1  | 54.02.0320   |          |                   | Plug 2.8*0.8                          | AMP    |
| D...37  | 50.04.0125   | 1N4448   | 50 V                 | SI                          |        | P....2  | 54.02.0320   |          |                   | Plug 2.8*0.8                          | AMP    |
| DL...7  | 50.04.2501   | MV5452   | LED grn D=5 mm       | GI                          |        | P....3  | 54.02.0320   |          |                   | Plug 2.8*0.8                          | AMP    |
| DL...8  | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | P....4  | 54.02.0320   |          |                   | Plug 2.8*0.8                          | AMP    |
| DL...9  | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | P....5  | 54.02.0320   |          |                   | Plug 2.8*0.8                          | AMP    |
| DL...10   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | P....6  | 54.02.0320   |          |                   | Plug 2.8*0.8                          | AMP    |
| DL...11   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | Q....1  | 50.03.0436   | BC237B   | BC547B, BC550B    | NPN                                   |        |
| DL...12   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | Q....2  | 50.03.0436   | BC237B   | BC547B, BC550B    | NPN                                   |        |
| DL...13   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | Q....3  | 50.03.0436   | BC237B   | BC547B, BC550B    | NPN                                   |        |
| DL...14   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | Q....4  | 50.03.0436   | BC237B   | BC547B, BC550B    | NPN                                   |        |
| DL...15   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | Q....5  | 50.03.0436   | BC237B   | BC547B, BC550B    | NPN                                   |        |
| DL...16   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | Q....6  | 50.03.0436   | BC237B   | BC547B, BC550B    | NPN                                   |        |
| DL...17   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....1  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...18   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          |        | R....2  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...21   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          |        | R....3  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...22   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....4  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...23   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....5  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...24   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....6  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...25   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....7  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...26   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....8  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...27   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....9  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...28   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          |        | R....10   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...31   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          |        | R....11   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...32   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....12   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...33   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....13   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...34   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....14   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...35   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....15   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...36   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....16   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...37   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....17   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...38   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          |        | R....18   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF     |                                       |        |
| DL...41   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....19   | 57.11.3272   | 2.7 kOhm | 1%, 0.25W, MF     |                                       |        |
| DL...42   | 50.04.2501   | MV5452   | LED grn D=5 mm       | GI                          |        | R....20   | 57.11.3474   | 470 kOhm | 1%, 0.25W, MF     |                                       |        |
| DL...43   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....30   | 57.11.3153   | 15 kOhm  | 1%, 0.25W, MF     |                                       |        |
| DL...44   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          |        | R....31   | 57.11.3682   | 6.8 kOhm | 1%, 0.25W, MF     |                                       |        |
| DL...45   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....32   | 57.11.3153   | 15 kOhm  | 1%, 0.25W, MF     |                                       |        |
| S T U D E R (02) 90/10/25 GP COMMAND PANEL BOARD 2VU PL 1.727.662.00 PAGE 2 |              |          |                      |                             |        | S T U D E R (02) 90/10/25 GP COMMAND PANEL BOARD 2VU PL 1.727.662.00 PAGE 5 |              |          |                   |                                       |        |
| IND.  | POS.NO.      | PART NO. | VALUE                | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT           | MANUF. |
| DL...46   | 50.04.2500   | MV5352   | LED yel D=5 mm       | GI                          |        | R....33   | 57.11.3682   | 6.8 kOhm | 1%, 0.25W, MF     |                                       |        |
| DL...47   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          |        | R....34   | 57.11.3682   | 6.8 kOhm | 1%, 0.25W, MF     |                                       |        |
| DL...48   | 50.04.2501   | MV5452   | LED grn D=5 mm       | GI                          | (00)   | R....35   | 58.01.8203   | 20 kOhm  | 10%, 0.5 W, PCerm |                                       |        |
| DL...49   | 50.04.2115   | MV5752   | LED red D=5 mm       | GI                          | (01)   | R....36   | 58.01.8503   | 50 kOhm  | 10%, 0.5 W, PCerm |                                       |        |
| DL...61   | 50.04.2119   | MV57124  | LED red 6.35*3.81    | GI                          | (00)   | R....37   | 57.11.3203   | 20 kOhm  | 1%, 0.25W, MF     |                                       |        |
| DL...62   | 50.04.2119   | MV57124  | LED red 6.35*3.81    | GI                          | (01)   | R....38   | 57.11.3203   | 20 kOhm  | 1%, 0.25W, MF     |                                       |        |
| DL...63   | 50.04.2119   | MV57124  | LED red 6.35*3.81    | GI                          |        | R....39   | 57.11.3203   | 20 kOhm  | 1%, 0.25W, MF     |                                       |        |
| DL...64   | 50.04.2119   | MV57124  | LED red 6.35*3.81    | GI                          |        | R....40   | 57.11.3203   | 20 kOhm  | 1%, 0.25W, MF     |                                       |        |
| DL...65   | 50.04.2119   | MV57124  | LED red 6.35*3.81    | GI                          |        | R....41   | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF     |                                       |        |
| DL...66   | 50.04.2119   | MV57124  | LED red 6.35*3.81    | GI                          |        | R....42   | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF     |                                       |        |
| IC...1  | 50.17.1595   | 74HC595  | 8-Bit Shift Register | TI                          |        | R....43   | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF     |                                       |        |
| IC...2  | 50.17.1595   | 74HC595  | 8-Bit Shift Register | TI                          |        | R....44   | 57.11.3472   | 4.7 kOhm | 1%, 0.25W, MF     |                                       |        |
| IC...3  | 50.09.0107   | RC4559   | Dual Op. Amp.        | Ra                          |        | R....45   | 57.11.3182   | 1.8 kOhm | 1%, 0.25W, MF     |                                       |        |
| IC...4  | 50.09.0107   | RC4559   | Dual Op. Amp.        | Ra                          |        | R....46   | 57.11.3151   | 150 Oh   |                   |                                       |        |

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| IND.   | POS.NO.  | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|----------|------------|----------|-----------------------------|--------|
| (00)   | R....75  | 58.01.8203 | 20 kOhm  | 10%, 0.5 W, PCerm           |        |
| (01)   | R....75  | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCerm           |        |
| (00)   | R....76  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF               |        |
| (01)   | R....76  | 57.11.3822 | 8.2 kOhm | 1%, 0.25W, MF               |        |
|  | R....77  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF               |        |
|  | R....78  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF               |        |
|  | R....79  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | R....80  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF               |        |
|  | R....81  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | R....82  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | R....83  | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF               |        |
|  | R....84  | 57.11.3182 | 1.8 kOhm | 1%, 0.25W, MF               |        |
|  | R....85  | 57.11.3151 | 150 Ohm  | 1%, 0.25W, MF               |        |
|  | R....86  | 57.11.3202 | 2 kOhm   | 1%, 0.25W, MF               |        |
|  | R....87  | 57.11.3751 | 750 Ohm  | 1%, 0.25W, MF               |        |
|  | R....88  | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF               |        |
|  | R....89  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
| (00)   | R....90  | 58.01.8203 | 20 kOhm  | 10%, 0.5 W, PCerm           |        |
| (01)   | R....90  | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCerm           |        |
|  | R....91  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....92  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....93  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....94  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....101 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....102 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....103 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....104 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....105 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....106 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....107 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....108 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | R....109 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | S....6   | 55.15.0130 |          | Push button Switch          | ITT    |
|  | W....41  | 64.01.0106 |          | Wire Bridge                 |        |
|  | W....42  | 64.01.0106 |          | Wire Bridge                 |        |
| S T U D E R (02) 90/10/25 GP COMMAND PANEL BOARD 2VU PL 1.727.662.00 PAGE 7  |          |            |          |                             |        |
| IND.   | POS.NO.  | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|  | W....43  | 64.01.0106 |          | Wire Bridge                 |        |
|  | W....46  | 64.01.0106 |          | Wire Bridge                 |        |
|  | W....141 |            |          | not used                    |        |
|  | W....142 |            |          | not used                    |        |
|  | W....143 |            |          | not used                    |        |
|  | XB....1  | 53.04.0107 |          | Lamp holder                 |        |
|  | XB....2  | 53.04.0107 |          | Lamp holder                 |        |
|  | XB....3  | 53.04.0107 |          | Lamp holder                 |        |
|  | XB....4  | 53.04.0107 |          | Lamp holder                 |        |
|  | XIC...1  | 53.03.0168 | 16-Pole  | IC Socket                   |        |
|  | XIC...2  | 53.03.0168 | 16-Pole  | IC Socket                   |        |
|  | XIC...3  | 53.03.0166 | 8-Pole   | IC Socket                   |        |
|  | XIC...4  | 53.03.0166 | 8-Pole   | IC Socket                   |        |
|  | XIC...5  | 53.03.0167 | 14-Pole  | IC Socket                   |        |
|  | XIC...6  | 53.03.0168 | 16-Pole  | IC Socket                   |        |
|  | XIC...7  | 53.03.0168 | 16-Pole  | IC Socket                   |        |
|  | XIC...8  | 53.03.0166 | 8-Pole   | IC Socket                   |        |
|  | XIC...9  | 53.03.0166 | 8-Pole   | IC Socket                   |        |
|  | XIC...10 | 53.03.0167 | 14-Pole  | IC Socket                   |        |
|  | XIC...11 | 53.03.0168 | 16-Pole  | IC Socket                   |        |
|  | XIC...12 | 53.03.0168 | 16-Pole  | IC Socket                   |        |
|  | XIC...13 | 53.03.0168 | 16-Pole  | IC Socket                   |        |
| (01) 11.01.90 Extended adjustment range of VU-meter.<br>(02) 25.10.90 Change of material (from plastic to aluminium).<br>CER=Ceramic, EL=Electrolytic, PETP=Polyester, SI=Silicon,<br>MF=Metal Film, PCerm=Pot. Cermet,<br>MANUFACTURER: AMP, GI=General Instrument, ITT, Mot=Motorola,<br>NS=National Semiconductor, Ph=Philips, Ra=Raytheon,<br>TI=Texas Instruments |          |            |          |                             |        |
| ORIG 89/03/16 (01) 90/01/11 (02) 90/10/25<br>S T U D E R (02) 90/10/25 GP COMMAND PANEL BOARD 2VU PL 1.727.662.00 PAGE 8   |          |            |          |                             |        |

COMMAND PANEL BOARD 2VU (2CH) 1.727.662.82



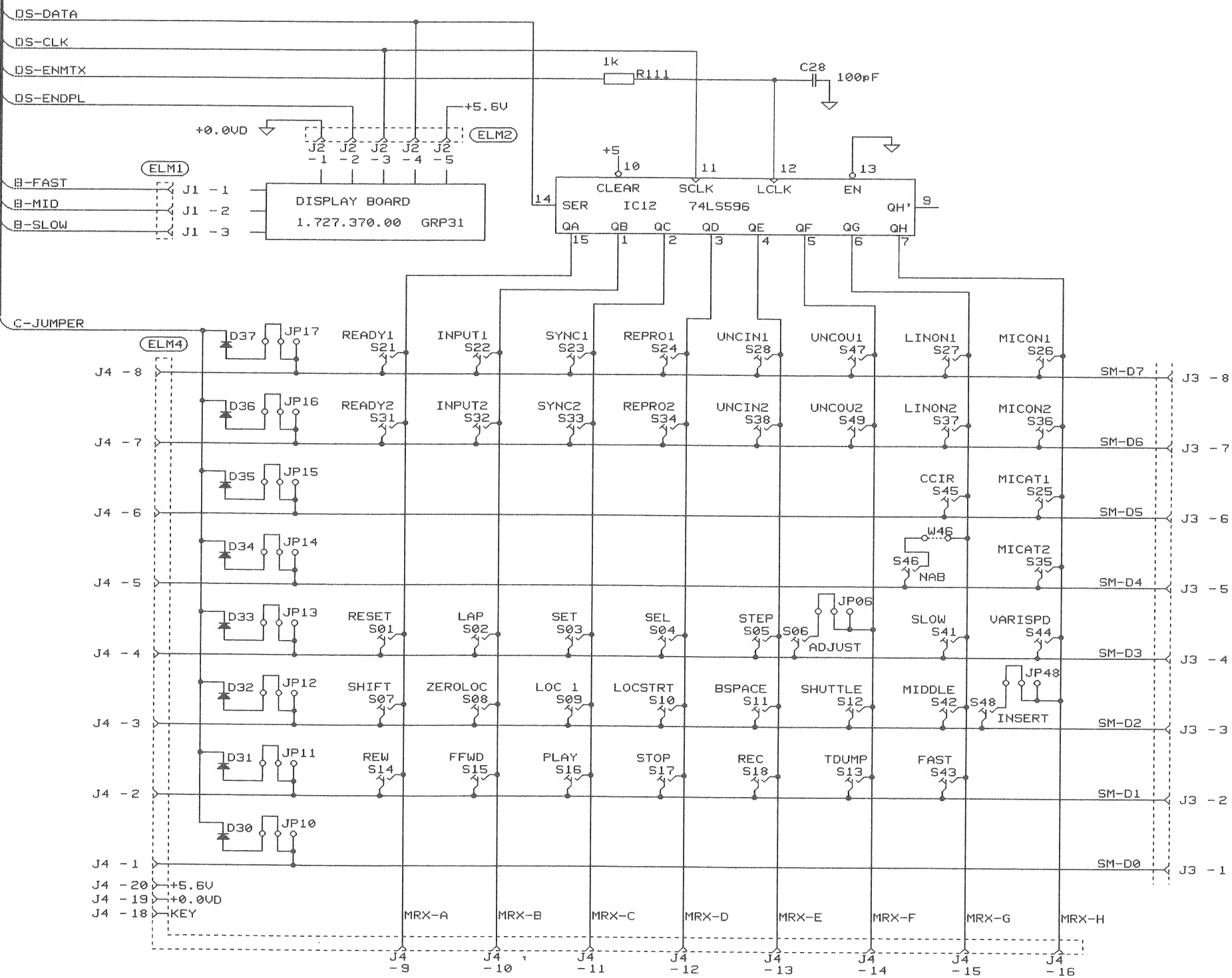
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|---------|----|-----|
| 74HC595 | 16 | 8   |
| 74LS596 | 16 | 8   |

PAGE 2

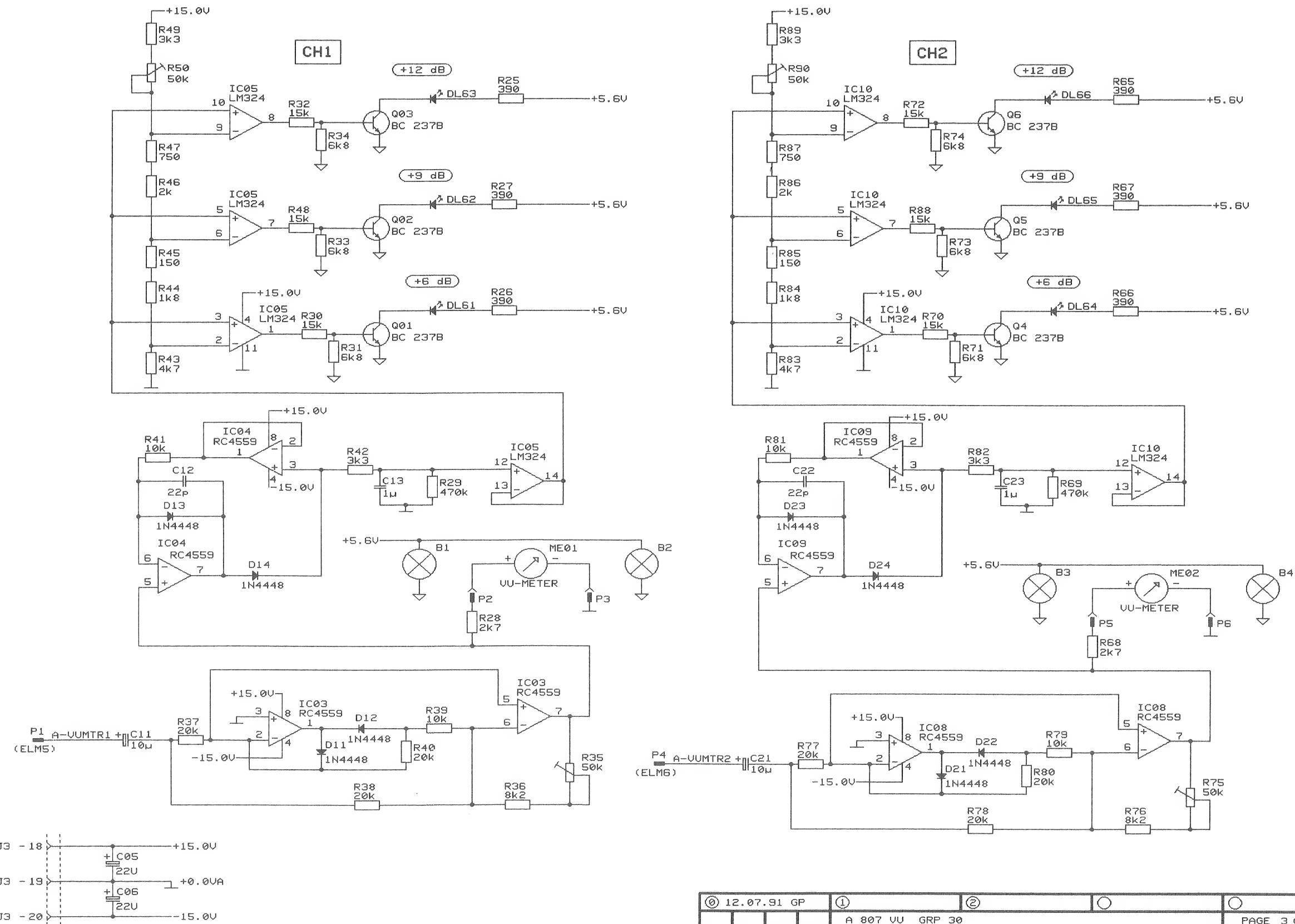
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|---------------|-------------------------|-----|--------------|
| ⑩ 12.07.91 GP | ①                       | ②   | ○            |
|               | A 807 VU GRP 30         |     | PAGE 1 OF 3  |
| STUDER        | COMMAND PANEL BOARD 2VU | SCH | 1.727.662-82 |

COMMAND PANEL BOARD 2VU (2CH) 1.727.662.82

PAGE 1



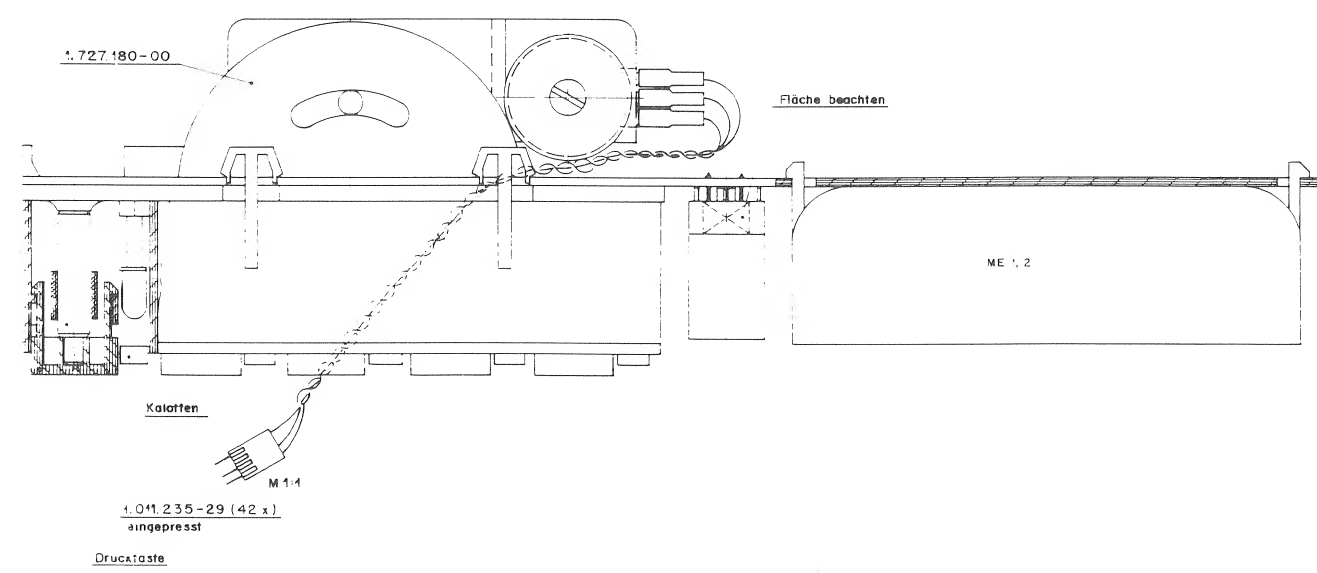
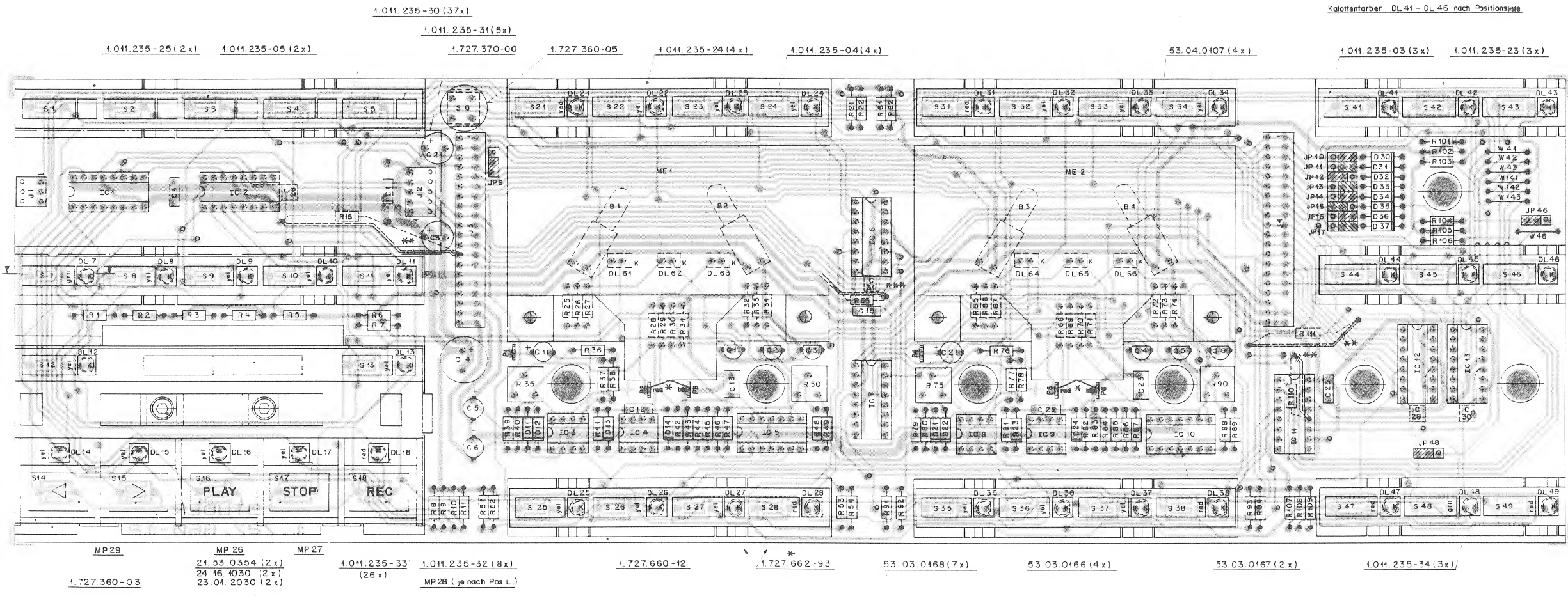
## COMMAND PANEL BOARD 2VU (2CH) 1.727.662.82



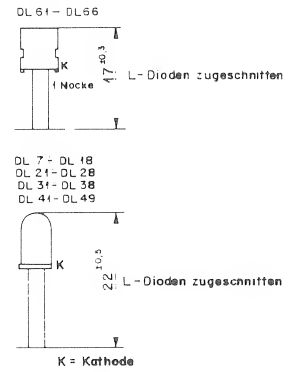
|                 |                         |   |   |                  |
|-----------------|-------------------------|---|---|------------------|
| © 12.07.91 GP   | ①                       | ② | ○ | ○                |
| A 807 VU GRP 30 | PAGE 3 OF 3             |   |   |                  |
| STUDER          | COMMAND PANEL BOARD 2VU |   |   | SCH 1.727.662-82 |



COMMAND PANEL BOARD 2VU (2CH) 1.727.662.82



\*\* Leiterbahn auftrennen (2x Lötseite, 1x Bestückungsseite)  
 \*\*\* Leiterbahn auftrennen (Lötseite, wenn C31 und R55 vorhanden ist.)  
 C26, C28, C30 und C31 } Auf Lötseite löten und mit  
 R15, R110 und R111 } Teflenschlauch 63.99.0111 isolieren.  
 R 55 auf Lötseite löten ( Lötstopp entfernen).



| VALID FOR                       | NR. UNIT = NR. POS. LIST |
|---------------------------------|--------------------------|
| COMMAND PANEL BOARD 0VU         | 1.727.660-82             |
| COMMAND PANEL BOARD 1VU         | 1.727.661-82             |
| COMMAND PANEL BOARD 2VU         | 1.727.662-82             |
| COMMAND PANEL BOARD 2/2         | 1.727.663-82             |
| COMMAND PANEL BOARD 2VU         | 1.727.664-82             |
| COMMAND PANEL BOARD 1VU         | 1.727.665-82             |
| COMMAND PANEL BOARD 0VU (4CH)   | 1.727.666-82             |
| COMMAND PANEL BOARD UNC PBO     | 1.727.667-82             |
| COMMAND PAN. BOARD UNC MONO PBO | 1.727.668-82             |
| COMMAND PANEL BOARD 0VU TC      | 1.727.760-82             |
| COMMAND PANEL BOARD 2VU TC      | 1.727.762-82             |
| COMMAND PANEL BOARD 2/2 TC      | 1.727.763-82             |
| COMMAND PANEL BOARD (4CH) TC    | 1.727.766-82             |

## COMMAND PANEL BOARD 2VU (2CH) 1.727.662.82

| IND.        | POS.NO.      | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.        | POS.NO.      | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT        | MANUF.   | IND.        | POS.NO.    | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-------------|--------------|-------------|-------------------------|-----------------------------|--------|-------------|--------------|-------------|-------------------------|------------------------------------|----------|-------------|------------|-------------|-------------------------|-----------------------------|--------|
| A.....1     | 1.727.370.00 |             |                         | Display Board               |        | JP...10     | 54.01.0021   |             |                         | Bridge                             |          | R....71     | 57.11.3682 |             | 6.8 kOhm                | 1%, 0.25W, MF               |        |
| A.....2     | 1.727.180.00 |             |                         | Shuttle Control             |        | JP...11     | 54.01.0021   |             |                         | Bridge                             |          | R....72     | 57.11.3153 |             | 15 kOhm                 | 1%, 0.25W, MF               |        |
| B.....1     | 51.02.0144   | 6 V         | 0.03 A                  | Lamp                        |        | JP...12     | 54.01.0021   |             |                         | Bridge                             |          | R....73     | 57.11.3682 |             | 6.8 kOhm                | 1%, 0.25W, MF               |        |
| B.....2     | 51.02.0144   | 6 V         | 0.03 A                  | Lamp                        |        | JP...13     | 54.01.0021   |             |                         | Bridge                             |          | R....74     | 57.11.3682 |             | 6.8 kOhm                | 1%, 0.25W, MF               |        |
| B.....3     | 51.02.0144   | 6 V         | 0.03 A                  | Lamp                        |        | JP...14     | 54.01.0021   |             |                         | Bridge                             |          | R....75     | 58.01.8503 |             | 50 kOhm                 | 10%, 0.5 W, PCerm           |        |
| B.....4     | 51.02.0144   | 6 V         | 0.03 A                  | Lamp                        |        | JP...15     | 54.01.0021   |             |                         | Bridge                             |          | R....76     | 57.11.3822 |             | 6.2 kOhm                | 1%, 0.25W, MF               |        |
| C.....1     | 59.06.0683   | 68 nF       | 10X 50 V                | PETP                        |        | JP...16     | 54.01.0021   |             |                         | Bridge                             |          | R....77     | 57.11.3203 |             | 20 kOhm                 | 1%, 0.25W, MF               |        |
| C.....2     | 59.22.3221   | 220 uF      | -20X 10 V               | EL                          |        | JP...17     | 54.01.0021   |             |                         | Bridge                             |          | R....78     | 57.11.3203 |             | 20 kOhm                 | 1%, 0.25W, MF               |        |
| C.....3     | 59.22.3221   | 220 uF      | -20X 10 V               | EL                          |        | JP...46     |              |             |                         | not used                           |          | R....79     | 57.11.3103 |             | 10 kOhm                 | 1%, 0.25W, MF               |        |
| C.....4     | 59.22.3102   | 1000 uF     | -20X 10 V               | EL                          |        | JP...48     | 54.01.0021   |             |                         | Bridge                             |          | R....80     | 57.11.3203 |             | 20 kOhm                 | 1%, 0.25W, MF               |        |
| C.....5     | 59.22.5220   | 22 uF       | -20X 25 V               | EL                          |        | ME....1     | 1.727.360.01 |             |                         | VU Meter                           |          | R....81     | 57.11.3103 |             | 10 kOhm                 | 1%, 0.25W, MF               |        |
| C.....6     | 59.22.5220   | 22 uF       | -20X 25 V               | EL                          |        | ME....2     | 1.727.360.01 |             |                         | VU Meter                           |          | R....82     | 57.11.3332 |             | 3.3 kOhm                | 1%, 0.25W, MF               |        |
| C.....11    | 59.22.6100   | 10 uF       | -20X 25 V               | EL                          |        | MP....1     | 54.01.0020   | 30 pcs      |                         | Contact Pin                        |          | R....83     | 57.11.3472 |             | 4.7 kOhm                | 1%, 0.25W, MF               |        |
| C.....12    | 59.34.2220   | 22 pF       | 10X 50 V                | CER                         |        | MP....2     | 1.011.235.03 | 3 pcs       |                         | Push button case 3*                |          | R....84     | 57.11.3182 |             | 1.8 kOhm                | 1%, 0.25W, MF               |        |
| C.....13    | 59.06.0105   | 1 uF        | 10X 50 V                | PETP                        |        | MP....3     | 1.011.235.04 | 4 pcs       |                         | Push button case 4*                |          | R....85     | 57.11.3151 |             | 150 Ohm                 | 1%, 0.25W, MF               |        |
| C.....15    | 59.06.0683   | 68 nF       | 10X 50 V                | PETP                        |        | MP....4     | 1.011.235.05 | 2 pcs       |                         | Push button case 5*                |          | R....86     | 57.11.3202 |             | 2 kOhm                  | 1%, 0.25W, MF               |        |
| C.....21    | 59.22.6100   | 10 uF       | -20X 25 V               | EL                          |        | MP....5     | 1.011.235.23 | 3 pcs       |                         | Conductive rubber 3*               |          | R....87     | 57.11.3751 |             | 750 Ohm                 | 1%, 0.25W, MF               |        |
| C.....22    | 59.34.2220   | 22 pF       | 10X 50 V                | CER                         |        | MP....6     | 1.011.235.24 | 4 pcs       |                         | Conductive rubber 4*               |          | R....88     | 57.11.3153 |             | 15 kOhm                 | 1%, 0.25W, MF               |        |
| C.....23    | 59.06.0105   | 1 uF        | 10X 50 V                | PETP                        |        | MP....7     | 1.011.235.25 | 2 pcs       |                         | Conductive rubber 5*               |          | R....89     | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| C.....25    | 59.06.0683   | 68 nF       | 10X 50 V                | PETP                        |        | MP....8     | 1.011.235.29 | 42 pcs      |                         | Bolt                               |          | R....90     | 58.01.8503 |             | 50 kOhm                 | 10%, 0.5 W, PCerm           |        |
| C.....26    | 59.45.4101   | 100 pF      | 10X 50 V                | CER                         |        | MP....9     | 1.011.235.30 | 37 pcs      |                         | Push button 14*5                   |          | R....91     | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| C.....27    | not used     |             |                         |                             |        | MP....10    | 1.011.235.31 | 5 pcs       |                         | Dummy calotte                      |          | R....92     | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| C.....28    | 59.45.4101   | 100 pF      | 10X 50 V                | CER                         |        | MP....11    | 1.011.235.32 | 8 pcs       |                         | Calotte red                        |          | R....93     | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| C.....29    | not used     |             |                         |                             |        | MP....12    | 1.011.235.33 | 26 pcs      |                         | Calotte yel                        |          | R....94     | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| C.....30    | 59.45.4101   | 100 pF      | 10X 50 V                | CER                         |        | MP....13    | 1.011.235.34 | 3 pcs       |                         | Calotte grn                        |          | R....101    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| C.....31    | 59.45.4101   | 100 pF      | 10X 50 V                | CER                         |        | MP....14    | 1.727.360.02 | 1 pcs       |                         | Push button case with Shuttle      |          | R....102    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....1     | 50.04.0512   | 1N5818      | 30 V                    | Schottky                    |        | MP....15    | 1.727.360.03 | 5 pcs       |                         | Push button 19*14                  |          | R....103    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....11    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....17    | 1.727.360.05 | 1 pcs       |                         | Push button Adj.                   |          | R....104    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....12    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....18    | 1.727.662.10 | 1 pcs       |                         | No. Label                          |          | R....105    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....13    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....19    | 1.727.660.12 | 1 pcs       |                         | Command Panel PCB                  |          | R....106    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....14    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....20    | 53.03.0221   | 43 pcs      |                         | 2-pole LED Socket                  |          | R....107    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....21    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....21    | 1.727.362.93 | 2 pcs       |                         | 1-1ST Command Panel Board          |          | R....108    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....22    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....22    | 21.53.0354   | 2 pcs       |                         | Hexagon socket head cap screw M3*6 |          | R....109    | 57.11.3391 |             | 390 Ohm                 | 1%, 0.25W, MF               |        |
| D.....23    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....23    | 23.01.2032   | 2 pcs       |                         | Washer                             |          | R....110    | 57.11.3102 |             | 1 kOhm                  | 1%, 0.25W, MF               |        |
| D.....23    | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        |             |              |             |                         |                                    | R....111 | 57.11.3102  |            | 1 kOhm      | 1%, 0.25W, MF           |                             |        |
| S T U D E R | (00)         | 91/07/12 GP | COMMAND PANEL BOARD 2VU | PL 1.727.662.82             | PAGE 1 | S T U D E R | (00)         | 91/07/12 GP | COMMAND PANEL BOARD 2VU | PL 1.727.662.82                    | PAGE 4   | S T U D E R | (00)       | 91/07/12 GP | COMMAND PANEL BOARD 2VU | PL 1.727.662.82             | PAGE 7 |
| IND.        | POS.NO.      | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.        | POS.NO.      | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT        | MANUF.   | IND.        | POS.NO.    | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT | MANUF. |
| D....24     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....24    | 24.16.1030   | 2 pcs       |                         | Fin washer                         |          | W....41     | 64.01.0106 |             |                         | Wire Bridge                 |        |
| D....30     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....25    | 43.01.0108   | 1 pcs       |                         | ESE Warning label                  |          | W....42     | 64.01.0106 |             |                         | Wire Bridge                 |        |
| D....31     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....26    | 1.727.360.07 | 1 pcs       |                         | Push button label , PLAY           |          | W....43     | 64.01.0106 |             |                         | Wire Bridge                 |        |
| D....32     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....27    | 1.727.360.08 | 1 pcs       |                         | Push button label , STOP           |          | W....46     | 64.01.0106 |             |                         | Wire Bridge                 |        |
| D....33     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....28    | 1.727.360.09 | 1 pcs       |                         | Push button label , RECORD         |          | W....141    |            |             |                         | not used                    |        |
| D....34     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | MP....29    | 1.727.360.19 | 2 pcs       |                         | Push button label, FORWARD,REWIND  |          | W....142    |            |             |                         | not used                    |        |
| D....35     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        |             |              |             |                         |                                    | W....143 |             |            |             |                         | not used                    |        |
| D....36     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | P....1      | 54.02.0320   |             |                         | Plug 2.8*0.8                       | AMP      | XB....1     | 53.04.0107 |             |                         | Lamp holder                 |        |
| D....37     | 50.04.0125   | 1N4448      | 50 V                    | SI                          |        | P....2      | 54.02.0320   |             |                         | Plug 2.8*0.8                       | AMP      | XB....2     | 53.04.0107 |             |                         | Lamp holder                 |        |
| DL....7     | 50.04.2501   | MV5452      | LED grn D=5 mm          |                             | GI     | P....3      | 54.02.0320   |             |                         | Plug 2.8*0.8                       | AMP      | XB....3     | 53.04.0107 |             |                         | Lamp holder                 |        |
| DL....8     | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | P....4      | 54.02.0320   |             |                         | Plug 2.8*0.8                       | AMP      | XB....4     | 53.04.0107 |             |                         | Lamp holder                 |        |
| DL....9     | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | P....5      | 54.02.0320   |             |                         | Plug 2.8*0.8                       | AMP      |             |            |             |                         |                             |        |
| DL....10    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | P....6      | 54.02.0320   |             |                         | Plug 2.8*0.8                       | AMP      |             |            |             |                         |                             |        |
| DL....11    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | Q....1      | 50.03.0436   | BC237B      | BC547B, BC550B          | NPN                                | XIC....1 | 53.03.0168  |            | 16-Pole     | IC Socket               |                             |        |
| DL....12    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | Q....2      | 50.03.0436   | BC237B      | BC547B, BC550B          | NPN                                | XIC....2 | 53.03.0168  |            | 16-Pole     | IC Socket               |                             |        |
| DL....13    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | Q....3      | 50.03.0436   | BC237B      | BC547B, BC550B          | NPN                                | XIC....3 | 53.03.0166  |            | 8-Pole      | IC Socket               |                             |        |
| DL....14    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | Q....4      | 50.03.0436   | BC237B      | BC547B, BC550B          | NPN                                | XIC....4 | 53.03.0166  |            | 8-Pole      | IC Socket               |                             |        |
| DL....15    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | Q....5      | 50.03.0436   | BC237B      | BC547B, BC550B          | NPN                                | XIC....5 | 53.03.0167  |            | 14-Pole     | IC Socket               |                             |        |
| DL....16    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | Q....6      | 50.03.0436   | BC237B      | BC547B, BC550B          | NPN                                | XIC....6 | 53.03.0168  |            | 16-Pole     | IC Socket               |                             |        |
| DL....17    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     |             |              |             |                         |                                    | XIC....7 | 53.03.0168  |            | 16-Pole     | IC Socket               |                             |        |
| DL....18    | 50.04.2115   | MV5752      | LED red D=5 mm          |                             | GI     | R....1      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    | XIC....8 | 53.03.0166  |            | 8-Pole      | IC Socket               |                             |        |
| DL....21    | 50.04.2115   | MV5752      | LED red D=5 mm          |                             | GI     | R....2      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    | XIC....9 | 53.03.0166  |            | 8-Pole      | IC Socket               |                             |        |
| DL....22    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....3      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    | XIC..10  | 53.03.0167  |            | 14-Pole     | IC Socket               |                             |        |
| DL....23    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....4      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    | XIC..11  | 53.03.0168  |            | 16-Pole     | IC Socket               |                             |        |
| DL....24    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....5      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    | XIC..12  | 53.03.0168  |            | 16-Pole     | IC Socket               |                             |        |
| DL....25    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....6      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    | XIC..13  | 53.03.0168  |            | 16-Pole     | IC Socket               |                             |        |
| DL....26    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....7      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....27    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....8      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....28    | 50.04.2115   | MV5752      | LED red D=5 mm          |                             | GI     | R....9      | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....31    | 50.04.2115   | MV5752      | LED red D=5 mm          |                             | GI     | R....10     | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....32    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....11     | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....33    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....15     | 57.11.3102   | 1 kOhm      | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....34    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....21     | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....35    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....22     | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....36    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....25     | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....37    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....26     | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| S T U D E R | (00)         | 91/07/12 GP | COMMAND PANEL BOARD 2VU | PL 1.727.662.82             | PAGE 2 | S T U D E R | (00)         | 91/07/12 GP | COMMAND PANEL BOARD 2VU | PL 1.727.662.82                    | PAGE 5   | S T U D E R | (00)       | 91/07/12 GP | COMMAND PANEL BOARD 2VU | PL 1.727.662.82             | PAGE 8 |
| IND.        | POS.NO.      | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.        | POS.NO.      | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT        | MANUF.   | IND.        | POS.NO.    | PART NO.    | VALUE                   | SPECIFICATIONS / EQUIVALENT | MANUF. |
| DL....38    | 50.04.2115   | MV5752      | LED red D=5 mm          |                             | GI     | R....27     | 57.11.3391   | 390 Ohm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....41    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....28     | 57.11.3272   | 2.7 kOhm    | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....42    | 50.04.2501   | MV5452      | LED grn D=5 mm          |                             | GI     | R....29     | 57.11.3474   | 470 kOhm    | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....43    | 50.04.2500   | MV5352      | LED yel D=5 mm          |                             | GI     | R....30     | 57.11.3153   | 15 kOhm     | 1%, 0.25W, MF           |                                    |          |             |            |             |                         |                             |        |
| DL....44    | 50.04.2115   | MV5752      | LED red D=5 mm          |                             | GI     | R....31     | 57.11.3682   |             |                         |                                    |          |             |            |             |                         |                             |        |

## COMMAND PANEL BOARD 2VU (2CH) 1.727.662.83

| IND.  | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT        | MANUF. | IND.  | POS.NO.    | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---|--------------|----------|----------------|-----------------------------|--------|---|--------------|----------|-------|------------------------------------|--------|---|------------|----------|--------------------|-----------------------------|--------|
| A....1  | 1.727.370.00 |          |                | Display Board               |        | JP...10   | 54.01.0021   |          |       | Bridge                             |        | R....67   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| A....2  | 1.727.180.00 |          |                | Shuttle Control             |        | JP...11   | 54.01.0021   |          |       | Bridge                             |        | R....68   | 57.11.3272 | 2.7 kOhm | 1%, 0.25W, MF      |                             |        |
| B....1  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | JP...12   | 54.01.0021   |          |       | Bridge                             |        | R....69   | 57.11.3474 | 470 kOhm | 1%, 0.25W, MF      |                             |        |
| B....2  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | JP...13   | 54.01.0021   |          |       | Bridge                             |        | R....70   | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF      |                             |        |
| B....3  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | JP...14   | 54.01.0021   |          |       | Bridge                             |        | R....71   | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF      |                             |        |
| B....4  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | JP...15   | 54.01.0021   |          |       | Bridge                             |        | R....72   | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF      |                             |        |
| C....1  | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | JP...16   | 54.01.0021   |          |       | Bridge                             |        | R....73   | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF      |                             |        |
| C....2  | 59.22.3221   | 220 uF   | -20%           | 10 V EL                     |        | JP...17   | 54.01.0021   |          |       | Bridge                             |        | R....74   | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF      |                             |        |
| C....3  | 59.22.3221   | 220 uF   | -20%           | 10 V EL                     |        | JP...41   | 54.01.0021   |          |       | Bridge                             |        | R....75   | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCern  |                             |        |
| C....4  | 59.22.3102   | 1000 uF  | -20%           | 10 V EL                     |        | JP...42   | 54.01.0021   |          |       | Bridge                             |        | R....76   | 57.11.3822 | 8.2 kOhm | 1%, 0.25W, MF      |                             |        |
| C....5  | 59.22.5220   | 22 uF    | -20%           | 25 V EL                     |        | JP...43   | 54.01.0021   |          |       | Bridge                             |        | R....77   | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF      |                             |        |
| C....6  | 59.22.5220   | 22 uF    | -20%           | 25 V EL                     |        | JP...46   |              |          |       | not used                           |        | R....78   | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF      |                             |        |
| C....11   | 59.22.6100   | 10 uF    | -20%           | 25 V EL                     |        | JP...48   | 54.01.0021   |          |       | Bridge                             |        | R....79   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF      |                             |        |
| C....12   | 59.34.2220   | 22 pF    | 10%            | 50 V CER                    |        | ME....1   | 1.727.360.01 |          |       | VU Meter                           |        | R....80   | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF      |                             |        |
| C....13   | 59.06.0105   | 1 uF     | 10%            | 50 V PETP                   |        | ME....2   | 1.727.360.01 |          |       | VU Meter                           |        | R....81   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF      |                             |        |
| C....15   | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | MP....1   | 54.01.0020   | 39 pcs   |       | Contact Pin                        |        | R....82   | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF      |                             |        |
| C....21   | 59.22.6100   | 10 uF    | -20%           | 25 V EL                     |        | MP....2   | 1.011.235.03 | 3 pcs    |       | Push button case 3A                |        | R....83   | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF      |                             |        |
| C....22   | 59.34.2220   | 22 pF    | 10%            | 50 V CER                    |        | MP....3   | 1.011.235.04 | 4 pcs    |       | Push button case 4A                |        | R....84   | 57.11.3182 | 1.8 kOhm | 1%, 0.25W, MF      |                             |        |
| C....23   | 59.06.0105   | 1 uF     | 10%            | 50 V PETP                   |        | MP....4   | 1.011.235.05 | 2 pcs    |       | Push button case 5A                |        | R....85   | 57.11.3151 | 150 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....25   | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | MP....5   | 1.011.235.23 | 3 pcs    |       | Conductive rubber 3A               |        | R....86   | 57.11.3202 | 2 kOhm   | 1%, 0.25W, MF      |                             |        |
| C....26   | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | MP....6   | 1.011.235.24 | 4 pcs    |       | Conductive rubber 4A               |        | R....87   | 57.11.3751 | 750 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....27   |              |          |                | not used                    |        | MP....7   | 1.011.235.25 | 2 pcs    |       | Conductive rubber 5A               |        | R....88   | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF      |                             |        |
| C....28   | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | MP....8   | 1.011.235.29 | 42 pcs   |       | Bolt                               |        | R....89   | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCern  |                             |        |
| C....29   |              |          |                | not used                    |        | MP....9   | 1.011.235.30 | 37 pcs   |       | Push button 14x5                   |        | R....90   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....30   | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | MP...10   | 1.011.235.31 | 5 pcs    |       | Dummy calotte                      |        | R....91   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....31   | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | MP...11   | 1.011.235.32 | 8 pcs    |       | Calotte red                        |        | R....92   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....1  | 50.04.0512   | 1N5818   | 30 V           | Schottky                    |        | MP...12   | 1.011.235.33 | 26 pcs   |       | Calotte yel                        |        | R....93   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....11   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...13   | 1.011.235.34 | 3 pcs    |       | Calotte grn                        |        | R....94   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....12   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...14   | 1.727.360.02 | 1 pcs    |       | Push button case with Shuttle      |        | R....101  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....13   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...15   | 1.727.360.03 | 1 pcs    |       | Conductive rubber with Shuttle     |        | R....102  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....14   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...16   | 1.727.360.04 | 5 pcs    |       | Push button 19x14                  |        | R....103  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....21   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...17   | 1.727.360.05 | 1 pcs    |       | Push button Adj.                   |        | R....104  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....22   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...18   | 1.727.662.10 | 1 pcs    |       | No. Label                          |        | R....105  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....23   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...19   | 1.727.660.13 | 1 pcs    |       | Command Panel PCB                  |        | R....106  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D....23   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...20   | 53.03.0221   | 43 pcs   |       | 2-pole LED Socket                  |        | R....107  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| S T U D E R (00) 91/08/26 GP COMMAND PANEL BOARD 2VU PL 1.727.662.83 PAGE 1 |              |          |                |                             |        | S T U D E R (00) 91/08/26 GP COMMAND PANEL BOARD 2VU PL 1.727.662.83 PAGE 4 |              |          |       |                                    |        | S T U D E R (00) 91/08/26 GP COMMAND PANEL BOARD 2VU PL 1.727.662.83 PAGE 7 |            |          |                    |                             |        |
| IND.  | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT        | MANUF. | IND.  | POS.NO.    | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
| D....24   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...21   | 1.727.362.93 | 2 pcs    |       | L-LST Command Panel Board          |        | R...110   | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| D....30   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...22   | 21.53.0354   | 2 pcs    |       | Hexagon socket head cap screw M3x6 |        | R...111   | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| D....31   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...23   | 23.01.2032   | 2 pcs    |       | Washer                             |        | S....6  | 55.15.0130 |          | Push button Switch | ITT                         |        |
| D....32   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...24   | 24.16.1030   | 2 pcs    |       | Fin washer                         |        | W....46   | 64.01.0106 |          | Wire Bridge        |                             |        |
| D....33   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...25   | 43.01.0108   | 1 pcs    |       | ESE Warning label                  |        | XB....1   | 53.04.0123 |          | Lamp holder        |                             |        |
| D....34   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...26   | 1.727.360.07 | 1 pcs    |       | Push button label , PLAY           |        | XB....2   | 53.04.0123 |          | Lamp holder        |                             |        |
| D....35   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...27   | 1.727.360.08 | 1 pcs    |       | Push button label , STOP           |        | XB....3   | 53.04.0123 |          | Lamp holder        |                             |        |
| D....36   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...28   | 1.727.360.09 | 1 pcs    |       | Push button label , RECORD         |        | XB....4   | 53.04.0123 |          | Lamp holder        |                             |        |
| D....37   | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | MP...29   | 1.727.360.19 | 2 pcs    |       | Push button labels, FORWARD,REWIND |        | XIC...1   | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL....7   | 50.04.2501   | MV5452   | LED grn D=5 mm |                             | GI     | P....1  | 54.02.0320   |          |       | Plug 2.8x0.8                       | AMP    | XIC...2   | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL....8   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | P....2  | 54.02.0320   |          |       | Plug 2.8x0.8                       | AMP    | XIC...3   | 53.03.0166 | 8-Pole   | IC Socket          |                             |        |
| DL....9   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | P....3  | 54.02.0320   |          |       | Plug 2.8x0.8                       | AMP    | XIC...4   | 53.03.0166 | 8-Pole   | IC Socket          |                             |        |
| DL....10  | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | P....4  | 54.02.0320   |          |       | Plug 2.8x0.8                       | AMP    | XIC...5   | 53.03.0167 | 14-Pole  | IC Socket          |                             |        |
| DL....11  | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | P....5  | 54.02.0320   |          |       | Plug 2.8x0.8                       | AMP    | XIC...6   | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL....12  | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | P....6  | 54.02.0320   |          |       |                                    |        |   |            |          |                    |                             |        |

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| IND. | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND. | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|---------|----------|-------|-----------------------------|--------|------|---------|----------|-------|-----------------------------|--------|
|------|---------|----------|-------|-----------------------------|--------|------|---------|----------|-------|-----------------------------|--------|

ORIG 91/07/12

S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 1VU PL 1.727.661.82 PAGE 7

## COMMAND PANEL BOARD 2/2 (2CH) 1.727.663.82

| IND.      | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.      | POS.NO.    | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|--------------|----------|----------------|-----------------------------|--------|-----------|------------|----------|--------------------|-----------------------------|--------|
| A.....1   | 1.727.370.00 |          |                | Display Board               |        | R.....4   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| A.....2   | 1.727.180.00 |          |                | Shuttle Control             |        | R.....5   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....1   | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | R.....6   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....2   | 59.22.3221   | 220 uF   | -20%           | 10 V EL                     |        | R.....7   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....3   | 59.22.3221   | 220 uF   | -20%           | 10 V EL                     |        | R.....8   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....4   | 59.22.3102   | 1000 uF  | -20%           | 10 V EL                     |        | R.....9   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....15  | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | R.....10  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....25  | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | R.....11  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....26  | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | R.....15  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C.....27  |              |          | not used       |                             |        | R.....21  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....28  | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | R.....22  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....29  |              |          | not used       |                             |        | R.....55  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C.....30  | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | R.....61  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....31  | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | R.....62  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....1   | 50.04.0512   | 1M5018   | 30 V           | Schottky                    |        | R.....101 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....30  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....102 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....31  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....103 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....32  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....104 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....33  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....105 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....34  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....106 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....35  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....108 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....36  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....110 | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| D.....37  | 50.04.0125   | 1M4448   | 50 V           | SI                          |        | R.....111 | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| DL.....7  | 50.04.2501   | MV5452   | LED grn D=5 mm | GI                          |        | S.....6   | 55.15.0130 |          | Push button Switch | ITT                         |        |
| DL.....8  | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | W.....41  | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....9  | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | W.....42  | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....10 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | W.....43  | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....11 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | W.....46  | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....12 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | W.....141 |            |          | not used           |                             |        |
| DL.....13 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | W.....142 |            |          | not used           |                             |        |
| DL.....14 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | W.....143 |            |          | not used           |                             |        |
| DL.....15 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | XIC...1   | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL.....16 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | XIC...2   | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL.....17 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        | XIC...6   | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |

S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2/2 PL 1.727.663.82 PAGE 1 S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2/2 PL 1.727.663.82 PAGE 4

| IND.    | POS.NO.    | PART NO. | VALUE                     | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|---------------------------|-----------------------------|--------|----------|------------|----------|-----------|-----------------------------|--------|
| DL...18 | 50.04.2115 | MV5752   | LED red D=5 mm            | GI                          |        | XIC...7  | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| DL...21 | 50.04.2115 | MV5752   | LED red D=5 mm            | GI                          |        | XIC...12 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| DL...22 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        | XIC...13 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| DL...23 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...24 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...31 | 50.04.2115 | MV5752   | LED red D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...32 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...33 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...34 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...41 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...42 | 50.04.2501 | MV5452   | LED grn D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...43 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...44 | 50.04.2115 | MV5752   | LED red D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...45 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...46 | 50.04.2500 | MV5352   | LED yel D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| DL...48 | 50.04.2501 | MV5452   | LED grn D=5 mm            | GI                          |        |          |            |          |           |                             |        |
| IC...1  | 50.17.1595 | 74HC595  | 8-Bit Shift Register      | TI                          |        |          |            |          |           |                             |        |
| IC...2  | 50.17.1595 | 74HC595  | 8-Bit Shift Register      | TI                          |        |          |            |          |           |                             |        |
| IC...6  | 50.17.1595 | 74HC595  | 8-Bit Shift Register      | TI                          |        |          |            |          |           |                             |        |
| IC...7  | 50.17.1595 | 74HC595  | 8-Bit Shift Register      | TI                          |        |          |            |          |           |                             |        |
| IC...12 | 50.06.0596 | 74LS596  | 8-Bit Shift Register O.C. | TI                          |        |          |            |          |           |                             |        |
| IC...13 | 50.17.1595 | 74HC595  | 8-Bit Shift Register      | TI                          |        |          |            |          |           |                             |        |
| J.....1 | 54.01.0287 |          | 3-Pole                    | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J.....2 | 54.01.0288 |          | 5-Pole                    | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J.....3 | 54.01.0237 |          | 20-Pole                   | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J.....4 | 54.01.0237 |          | 20-Pole                   | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| JP...6  | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |
| JP...10 | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |
| JP...11 | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |
| JP...12 | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |
| JP...13 | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |
| JP...14 | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |
| JP...15 | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |
| JP...16 | 54.01.0021 |          | Bridge                    |                             |        |          |            |          |           |                             |        |

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| IND.    | POS.NO.      | PART NO. | VALUE                              | SPECIFICATIONS / EQUIVALENT | MANUF. | IND. | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|--------------|----------|------------------------------------|-----------------------------|--------|------|---------|----------|-------|-----------------------------|--------|
| JP...17 | 54.01.0021   |          | Bridge                             |                             |        |      |         |          |       |                             |        |
| JP...46 |              |          | not used                           |                             |        |      |         |          |       |                             |        |
| JP...48 | 54.01.0021   |          | Bridge                             |                             |        |      |         |          |       |                             |        |
| MP...1  | 54.01.0020   |          | Contact Pin                        |                             |        |      |         |          |       |                             |        |
| MP...2  | 1.011.235.03 | 3 pcs    | Push button case 3*                |                             |        |      |         |          |       |                             |        |
| MP...3  | 1.011.235.04 | 2 pcs    | Push button case 4*                |                             |        |      |         |          |       |                             |        |
| MP...4  | 1.011.235.05 | 2 pcs    | Push button case 5*                |                             |        |      |         |          |       |                             |        |
| MP...5  | 1.011.235.23 | 3 pcs    | Conductive rubber 3*               |                             |        |      |         |          |       |                             |        |
| MP...6  | 1.011.235.24 | 2 pcs    | Conductive rubber 4*               |                             |        |      |         |          |       |                             |        |
| MP...7  | 1.011.235.25 | 2 pcs    | Conductive rubber 5*               |                             |        |      |         |          |       |                             |        |
| MP...8  | 1.011.235.29 | 32 pcs   | Bolt                               |                             |        |      |         |          |       |                             |        |
| MP...9  | 1.011.235.30 | 27 pcs   | Push button 14*5                   |                             |        |      |         |          |       |                             |        |
| MP...10 | 1.011.235.31 | 5 pcs    | Dummy calotte                      |                             |        |      |         |          |       |                             |        |
| MP...11 | 1.011.235.32 | 4 pcs    | Calotte red                        |                             |        |      |         |          |       |                             |        |
| MP...12 | 1.011.235.33 | 20 pcs   | Calotte yel                        |                             |        |      |         |          |       |                             |        |
| MP...13 | 1.011.235.34 | 3 pcs    | Calotte grn                        |                             |        |      |         |          |       |                             |        |
| MP...14 | 1.727.360.02 | 1 pce    | Push button case with Shuttle      |                             |        |      |         |          |       |                             |        |
| MP...15 | 1.727.360.03 | 1 pce    | Conductive rubber with Shuttle     |                             |        |      |         |          |       |                             |        |
| MP...16 | 1.727.360.04 | 5 pcs    | Push button 19*14                  |                             |        |      |         |          |       |                             |        |
| MP...17 | 1.727.360.05 | 1 pce    | Push button Adj.                   |                             |        |      |         |          |       |                             |        |
| MP...18 | 1.727.663.10 | 1 pce    | No. Label                          |                             |        |      |         |          |       |                             |        |
| MP...19 | 1.727.660.12 | 1 pce    | Command Panel PCB                  |                             |        |      |         |          |       |                             |        |
| MP...20 | 53.03.0221   | 27 pcs   | 2-pole LED Socket                  |                             |        |      |         |          |       |                             |        |
| MP...22 | 21.53.0354   | 2 pcs    | Hexagon socket head cap screw M3*6 |                             |        |      |         |          |       |                             |        |
| MP...23 | 23.01.2032   | 2 pcs    | Washer                             |                             |        |      |         |          |       |                             |        |
| MP...24 | 24.16.1030   | 2 pcs    | Fin washer                         |                             |        |      |         |          |       |                             |        |
| MP...25 | 43.01.0108   | 1 pce    | ESE Warning label                  |                             |        |      |         |          |       |                             |        |
| MP...26 | 1.727.360.07 | 1 pce    | Push button label , PLAY           |                             |        |      |         |          |       |                             |        |
| MP...27 | 1.727.360.08 | 1 pce    | Push button label , STOP           |                             |        |      |         |          |       |                             |        |
| MP...28 | 1.727.360.09 | 1 pce    | Push button label , RECORD         |                             |        |      |         |          |       |                             |        |
| MP...29 | 1.727.360.19 | 2 pcs    | Push button labels, FORWARD,REWIND |                             |        |      |         |          |       |                             |        |
| MP...30 | 1.011.235.35 | 2 pcs    | Dummy push button 19*5             |                             |        |      |         |          |       |                             |        |
| R.....1 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |        |      |         |          |       |                             |        |
| R.....2 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |        |      |         |          |       |                             |        |
| R.....3 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |        |      |         |          |       |                             |        |

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## COMMAND PANEL BOARD 2VU PBO (2CH) 1.727.664.82

| IND.      | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT         | MANUF. |
|-----------|--------------|----------|----------------|-----------------------------|--------|----------|--------------|----------|----------------|-------------------------------------|--------|
| A.....1   | 1.727.370.00 |          |                | Display Board               |        | MP....7  | 1.011.235.25 | 2 pcs    |                | Conductive rubber 5*                |        |
| A.....2   | 1.727.180.00 |          |                | Shuttle Control             |        | MP....8  | 1.011.235.29 | 26 pcs   |                | Bolt                                |        |
| B.....1   | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | MP....9  | 1.011.235.30 | 21 pcs   |                | Push button 14*5                    |        |
| B.....2   | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | MP....10 | 1.011.235.31 | 6 pcs    |                | Dummy calotte                       |        |
| B.....3   | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | MP....11 | 1.011.235.32 | 3 pcs    |                | Calotte red                         |        |
| B.....4   | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |        | MP....12 | 1.011.235.33 | 14 pcs   |                | Calotte yel                         |        |
| C.....1   | 59.06.0683   | 68 nF    | 10X 50 V       | PETP                        |        | MP....13 | 1.011.235.34 | 3 pcs    |                | Calotte grn                         |        |
| C.....2   | 59.22.3221   | 220 uF   | -20X 10 V      | EL                          |        | MP....14 | 1.727.360.02 | 1 pcs    |                | Push button case with Shuttle       |        |
| C.....3   | 59.22.3221   | 220 uF   | -20X 10 V      | EL                          |        | MP....15 | 1.727.360.03 | 1 pcs    |                | Conductive rubber with Shuttle      |        |
| C.....4   | 59.22.3102   | 1000 uF  | -20X 10 V      | EL                          |        | MP....16 | 1.727.360.04 | 5 pcs    |                | Push button 19*14                   |        |
| C.....5   | 59.22.5220   | 22 uF    | -20X 25 V      | EL                          |        | MP....17 | 1.727.360.05 | 1 pcs    |                | Push button Adj.                    |        |
| C.....6   | 59.22.5220   | 22 uF    | -20X 25 V      | EL                          |        | MP....18 | 1.727.664.10 | 1 pcs    |                | No. Label                           |        |
| C.....11  | 59.22.6100   | 10 uF    | -20X 25 V      | EL                          |        | MP....19 | 1.727.660.12 | 1 pcs    |                | Command Panel PCB                   |        |
| C.....12  | 59.34.2220   | 22 pF    | 10X 50 V       | CER                         |        | MP....20 | 53.03.0221   | 26 pcs   |                | 2-pole LED Socket                   |        |
| C.....13  | 59.06.0105   | 1 nF     | 10X 50 V       | PETP                        |        | MP....21 | 1.727.362.93 | 2 pcs    |                | L-IST Command Panel Board           |        |
| C.....15  | 59.06.0683   | 68 nF    | 10X 50 V       | PETP                        |        | MP....22 | 21.53.0354   | 2 pcs    |                | Hexagon socket head cap screw M3x6  |        |
| C.....21  | 59.22.6100   | 10 uF    | -20X 25 V      | EL                          |        | MP....23 | 23.01.2032   | 2 pcs    |                | Washer                              |        |
| C.....22  | 59.34.2220   | 22 pF    | 10X 50 V       | CER                         |        | MP....24 | 24.16.1030   | 2 pcs    |                | Fin washer                          |        |
| C.....23  | 59.06.0105   | 1 nF     | 10X 50 V       | PETP                        |        | MP....25 | 43.01.0108   | 1 pcs    |                | ESE Warning label                   |        |
| C.....25  | 59.06.0683   | 68 nF    | 10X 50 V       | PETP                        |        | MP....26 | 1.727.360.07 | 1 pcs    |                | Push button label , PLAY            |        |
| C.....26  | 59.45.4101   | 100 pF   | 10X 50 V       | CER                         |        | MP....27 | 1.727.360.08 | 1 pcs    |                | Push button label , STOP            |        |
| C.....27  |              |          | not used       |                             |        | MP....28 | 1.727.364.02 | 1 pcs    |                | Push button label , blank (for S18) |        |
| C.....28  | 59.45.4101   | 100 pF   | 10X 50 V       | CER                         |        | MP....29 | 1.727.360.19 | 2 pcs    |                | Push button labels, FORWARD,REWIND  |        |
| C.....29  |              |          | not used       |                             |        | P.....1  | 54.02.0320   |          |                | Plug 2.8x0.8                        | AMP    |
| C.....30  | 59.45.4101   | 100 pF   | 10X 50 V       | CER                         |        | P.....2  | 54.02.0320   |          |                | Plug 2.8x0.8                        | AMP    |
| C.....31  | 59.45.4101   | 100 pF   | 10X 50 V       | CER                         |        | P.....3  | 54.02.0320   |          |                | Plug 2.8x0.8                        | AMP    |
| D.....1   | 50.04.0512   | 1N5818   | 30 V           | Schottky                    |        | P.....4  | 54.02.0320   |          |                | Plug 2.8x0.8                        | AMP    |
| D.....11  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | P.....5  | 54.02.0320   |          |                | Plug 2.8x0.8                        | AMP    |
| D.....12  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | P.....6  | 54.02.0320   |          |                | Plug 2.8x0.8                        | AMP    |
| D.....13  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | Q.....1  | 50.03.0436   | BC237B   | BC547B, BC550B | NPN                                 |        |
| D.....14  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | Q.....2  | 50.03.0436   | BC237B   | BC547B, BC550B | NPN                                 |        |
| D.....15  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | Q.....3  | 50.03.0436   | BC237B   | BC547B, BC550B | NPN                                 |        |
| D.....16  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | Q.....4  | 50.03.0436   | BC237B   | BC547B, BC550B | NPN                                 |        |
| D.....17  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | Q.....5  | 50.03.0436   | BC237B   | BC547B, BC550B | NPN                                 |        |
| D.....18  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | Q.....6  | 50.03.0436   | BC237B   | BC547B, BC550B | NPN                                 |        |
| D.....19  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....20  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....21  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....22  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....23  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....24  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....25  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....26  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....27  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....28  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....29  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....30  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....31  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....32  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....33  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....34  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....35  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....36  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| D.....37  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |          |              |          |                |                                     |        |
| DL.....7  | 50.04.2501   | MV5452   | LED grn D=5 mm |                             | GI     | R.....1  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....8  | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....2  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....9  | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....3  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....10 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....4  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....11 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....5  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....12 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....6  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....13 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....7  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....14 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....8  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....15 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....9  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....16 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....10 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....17 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....11 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....18 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....12 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....19 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....13 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....20 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....14 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....21 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....15 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....22 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....16 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....23 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....17 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....24 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....18 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....25 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....19 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....26 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....20 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....27 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....21 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....28 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....22 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....29 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....23 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....30 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....24 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....31 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....25 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....32 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....26 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....33 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....27 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....34 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....28 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....35 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....29 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....36 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....30 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....37 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....31 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....38 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....32 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....39 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....33 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....40 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....34 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....41 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....35 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....42 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....36 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....43 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....37 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....44 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....38 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....45 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....39 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....46 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....40 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....47 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....41 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....48 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....42 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....49 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....43 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....50 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....44 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....51 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....45 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....52 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....46 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....53 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....47 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....54 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....48 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....55 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....49 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....56 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....50 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....57 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....51 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....58 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....52 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....59 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....53 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....60 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....54 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....61 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....55 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....62 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....56 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....63 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....57 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....64 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....58 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....65 | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     | R.....59 | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF  |                                     |        |
| DL.....66 | 50.0         |          |                |                             |        |          |              |          |                |                                     |        |



## COMMAND PANEL BOARD 2VU PBO (2CH) 1.727.664.82

| IND.     | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|------------|---------|-----------------------------|--------|
| R....110 |         | 57.11.3102 | 1 kOhm  | 1%, 0.25W, MF               |        |
| R....111 |         | 57.11.3102 | 1 kOhm  | 1%, 0.25W, MF               |        |
| S....6   |         | 55.15.0130 |         | Push button Switch          | ITT    |
| W....41  |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....42  |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....43  |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....46  |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....141 |         |            |         | not used                    |        |
| W....142 |         |            |         | not used                    |        |
| W....143 |         |            |         | not used                    |        |
| XB....1  |         | 53.04.0107 |         | Lamp holder                 |        |
| XB....2  |         | 53.04.0107 |         | Lamp holder                 |        |
| XB....3  |         | 53.04.0107 |         | Lamp holder                 |        |
| XB....4  |         | 53.04.0107 |         | Lamp holder                 |        |
| XIC...1  |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...2  |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...3  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...4  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...5  |         | 53.03.0167 | 14-Pole | IC Socket                   |        |
| XIC...6  |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...7  |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...8  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...9  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...10 |         | 53.03.0167 | 14-Pole | IC Socket                   |        |
| XIC...12 |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...13 |         | 53.03.0168 | 16-Pole | IC Socket                   |        |

S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2VU PBO PL 1.727.664.82 PAGE 7

| IND. | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|---------|----------|-------|-----------------------------|--------|
|------|---------|----------|-------|-----------------------------|--------|

CER=Ceramic, EL=Electrolytic, PETP=Polyester, SI=Silicon,  
MF=Metal Film, PCerm=Pot. Cermet,  
MANUFACTURER: AMP, GI=General Instrument, ITT, Mot=Motorola,  
NS=National Semiconductor, Ph=Philips, Ra=Raytheon,  
TI=Texas Instruments

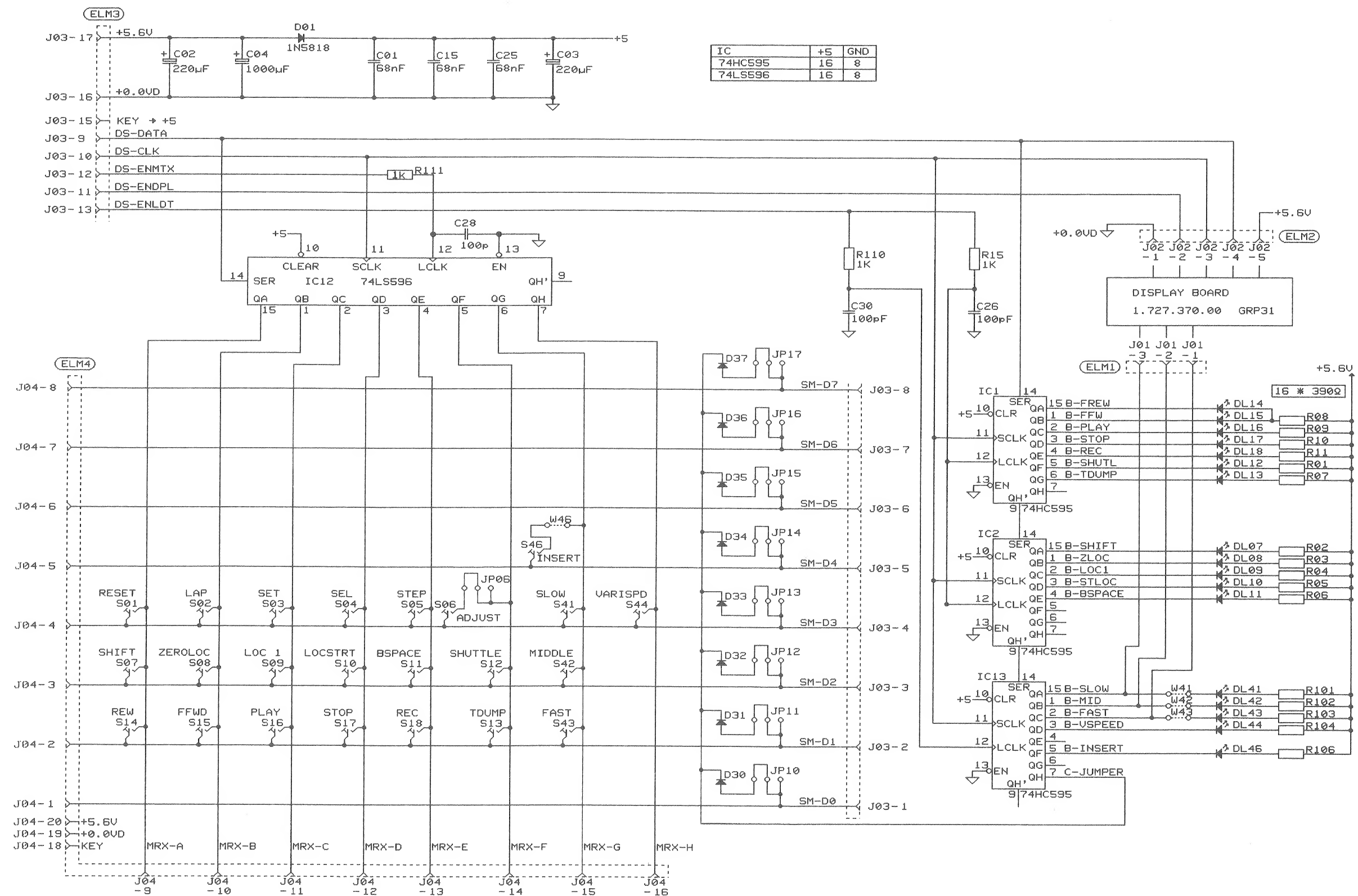
ORIG 91/07/12

S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2VU PBO PL 1.727.664.82 PAGE 8

## COMMAND PANEL BOARD 1VU PBO (2CH) 1.727.665.82

| IND.  | POS.NO.      | PART NO. | VALUE   | SPECIFICATIONS / EQUIVALENT        | MANUF.   | IND.  | POS.NO.      | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT        | MANUF. |
|---|--------------|----------|---------|------------------------------------|----------|---|--------------|----------|--------------------|------------------------------------|--------|
| A.....1   | 1.727.370.00 |          |         | Display Board                      |          | MP...26   | 1.727.360.07 |          | 1 pce              | Push button label, PLAY            |        |
| A.....2   | 1.727.180.00 |          |         | Shuttle Control                    |          | MP...27   | 1.727.360.08 |          | 1 pce              | Push button label, STOP            |        |
| B.....1   | 51.02.0144   |          | 6 V     | 0.03 A                             | Lamp     | MP...28   | 1.727.364.02 |          | 1 pce              | Push button label, blank (for S18) |        |
| B.....2   | 51.02.0144   |          | 6 V     | 0.03 A                             | Lamp     | MP...29   | 1.727.360.19 |          | 2 pce              | Push button labels, FORWARD,REWIND |        |
|   |              |          |         |                                    |          | MP...30   | 1.011.235.35 |          | 1 pce              | Dummy push button 19x5 (S49)       |        |
| C.....1   | 59.06.0683   |          | 68 nF   | 10X 50 V                           | PETP     | P.....1   | 54.02.0320   |          |                    | Plug 2.8x0.8                       | AMP    |
| C.....2   | 59.22.3221   |          | 220 uF  | -20X 10 V                          | EL       | P.....2   | 54.02.0320   |          |                    | Plug 2.8x0.8                       | AMP    |
| C.....3   | 59.22.3221   |          | 220 uF  | -20X 10 V                          | EL       | P.....3   | 54.02.0320   |          |                    | Plug 2.8x0.8                       | AMP    |
| C.....4   | 59.22.3102   |          | 1000 uF | -20X 10 V                          | EL       |   |              |          |                    |                                    |        |
| C.....5   | 59.22.5220   |          | 22 uF   | -20X 25 V                          | EL       | Q.....1   | 50.03.0436   | BC237B   | BC547B, BC550B     | NPN                                |        |
| C.....6   | 59.22.5220   |          | 22 uF   | -20X 25 V                          | EL       | Q.....2   | 50.03.0436   | BC237B   | BC547B, BC550B     | NPN                                |        |
| C.....11  | 59.22.6100   |          | 10 uF   | -20X 25 V                          | EL       | Q.....3   | 50.03.0436   | BC237B   | BC547B, BC550B     | NPN                                |        |
| C.....12  | 59.34.2220   |          | 22 pF   | 10X 50 V                           | CER      |   |              |          |                    |                                    |        |
| C.....13  | 59.06.0105   |          | 1 uF    | 10X 50 V                           | PETP     | R.....1   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....15  | 59.06.0683   |          | 68 nF   | 10X 50 V                           | PETP     | R.....2   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....25  | 59.06.0683   |          | 68 nF   | 10X 50 V                           | PETP     | R.....3   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....26  | 59.45.4101   |          | 100 pF  | 10X 50 V                           | CER      | R.....4   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....27  |              |          |         | not used                           |          | R.....5   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....28  | 59.45.4101   |          | 100 pF  | 10X 50 V                           | CER      | R.....6   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....29  | 59.45.4101   |          | 100 pF  | 10X 50 V                           | CER      | R.....7   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....30  | 59.45.4101   |          | 100 pF  | 10X 50 V                           | CER      | R.....8   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| C.....31  | 59.45.4101   |          | 100 pF  | 10X 50 V                           | CER      | R.....9   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| D.....1   | 50.04.0512   | 1N5818   |         | 30 V                               | Schottky | R.....10  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| D.....11  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....11  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| D.....12  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....15  | 57.11.3102   | 1 kOhm   | 1X, 0.25W, MF      |                                    |        |
| D.....13  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....25  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| D.....14  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....26  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| D.....15  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....27  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| D.....30  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....28  | 57.11.3272   | 2.7 kOhm | 1X, 0.25W, MF      |                                    |        |
| D.....31  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....29  | 57.11.3474   | 470 kOhm | 1X, 0.25W, MF      |                                    |        |
| D.....32  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....30  | 57.11.3153   | 15 kOhm  | 1X, 0.25W, MF      |                                    |        |
| D.....33  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....31  | 57.11.3682   | 6.8 kOhm | 1X, 0.25W, MF      |                                    |        |
| D.....34  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....32  | 57.11.3153   | 15 kOhm  | 1X, 0.25W, MF      |                                    |        |
| D.....35  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....33  | 57.11.3682   | 6.8 kOhm | 1X, 0.25W, MF      |                                    |        |
| D.....36  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....34  | 57.11.3682   | 6.8 kOhm | 1X, 0.25W, MF      |                                    |        |
| D.....37  | 50.04.0125   | 1N4448   |         | 50 V                               | SI       | R.....35  | 58.01.8503   | 50 kOhm  | 10X, 0.5 W, PCerm  |                                    |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 1VU PBO PL 1.727.665.82 PAGE 1 |              |          |         |                                    |          | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 1VU PBO PL 1.727.665.82 PAGE 4   |              |          |                    |                                    |        |
| IND.  | POS.NO.      | PART NO. | VALUE   | SPECIFICATIONS / EQUIVALENT        | MANUF.   | IND.  | POS.NO.      | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT        | MANUF. |
| DL.....7  | 50.04.2501   | MV5452   |         | LED grn D=5 mm                     | GI       | R....36   | 57.11.3822   | 8.2 kOhm | 1X, 0.25W, MF      |                                    |        |
| DL.....8  | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....37   | 57.11.3203   | 20 kOhm  | 1X, 0.25W, MF      |                                    |        |
| DL.....9  | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....38   | 57.11.3203   | 20 kOhm  | 1X, 0.25W, MF      |                                    |        |
| DL.....10   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....39   | 57.11.3103   | 10 kOhm  | 1X, 0.25W, MF      |                                    |        |
| DL.....11   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....40   | 57.11.3203   | 20 kOhm  | 1X, 0.25W, MF      |                                    |        |
| DL.....12   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....41   | 57.11.3103   | 10 kOhm  | 1X, 0.25W, MF      |                                    |        |
| DL.....13   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....42   | 57.11.3332   | 3.3 kOhm | 1X, 0.25W, MF      |                                    |        |
| DL.....14   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....43   | 57.11.3472   | 4.7 kOhm | 1X, 0.25W, MF      |                                    |        |
| DL.....15   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....44   | 57.11.3182   | 1.8 kOhm | 1X, 0.25W, MF      |                                    |        |
| DL.....16   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....45   | 57.11.3151   | 150 Ohm  | 1X, 0.25W, MF      |                                    |        |
| DL.....17   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....46   | 57.11.3202   | 2 kOhm   | 1X, 0.25W, MF      |                                    |        |
| DL.....41   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....47   | 57.11.3751   | 750 Ohm  | 1X, 0.25W, MF      |                                    |        |
| DL.....42   | 50.04.2501   | MV5452   |         | LED grn D=5 mm                     | GI       | R....48   | 57.11.3153   | 15 kOhm  | 1X, 0.25W, MF      |                                    |        |
| DL.....43   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....49   | 57.11.3332   | 3.3 kOhm | 1X, 0.25W, MF      |                                    |        |
| DL.....44   | 50.04.2115   | MV5752   |         | LED red D=5 mm                     | GI       | R....50   | 58.01.8503   | 50 kOhm  | 10X, 0.5 W, PCerm  |                                    |        |
| DL.....45   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....55   | 57.11.3102   | 1 kOhm   | 1X, 0.25W, MF      |                                    |        |
| DL.....46   | 50.04.2500   | MV5352   |         | LED yel D=5 mm                     | GI       | R....101  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| DL.....47   | 50.04.2115   | MV5752   |         | LED red D=5 mm                     | GI       | R....102  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| DL.....48   | 50.04.2501   | MV5452   |         | LED grn D=5 mm                     | GI       | R....103  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| DL.....61   | 50.04.2119   | MV57124  |         | LED red 6.35x3.81                  | GI       | R....104  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| DL.....62   | 50.04.2119   | MV57124  |         | LED red 6.35x3.81                  | GI       | R....105  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| DL.....63   | 50.04.2119   | MV57124  |         | LED red 6.35x3.81                  | GI       | R....106  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| IC.....1  | 50.17.1595   | 74HC595  |         | 8-Bit Shift Register               | TI       | R....107  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| IC.....2  | 50.17.1595   | 74HC595  |         | 8-Bit Shift Register               | TI       | R....108  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF      |                                    |        |
| IC.....3  | 50.09.0107   | RC4559   |         | Dual Op. Amp.                      | Ra       | R....110  | 57.11.3102   | 1 kOhm   | 1X, 0.25W, MF      |                                    |        |
| IC.....4  | 50.09.0107   | RC4559   |         | Dual Op. Amp.                      | Ra       | R....111  | 57.11.3102   | 1 kOhm   | 1X, 0.25W, MF      |                                    |        |
| IC.....5  | 50.05.0199   | LN324    |         | Quad Op. Amp.                      | NS/Mot   | S.....6   | 55.15.0130   |          | Push button Switch | ITT                                |        |
| IC.....6  | 50.17.1595   | 74HC595  |         | 8-Bit Shift Register               | TI       |   |              |          |                    |                                    |        |
| IC.....12   | 50.06.0596   | 74LS596  |         | 8-Bit Shift Register O.C.          | TI       | W....41   | 64.01.0106   |          | Wire Bridge        |                                    |        |
| IC.....13   | 50.17.1595   | 74HC595  |         | 8-Bit Shift Register               | TI       | W....42   | 64.01.0106   |          | Wire Bridge        |                                    |        |
| J.....1   | 54.01.0287   |          | 3-Pole  | CIS Socket Strip                   | AMP      | W....43   | 64.01.0106   |          | Wire Bridge        |                                    |        |
| J.....2   | 54.01.0288   |          | 5-Pole  | CIS Socket Strip                   | AMP      | W....46   | 64.01.0106   |          | Wire Bridge        |                                    |        |
| J.....3   | 54.01.0237   |          | 20-Pole | CIS Socket Strip                   | AMP      | W....141  |              |          | not used           |                                    |        |
| J.....4   | 54.01.0237   |          | 20-Pole | CIS Socket Strip                   | AMP      | W....142  |              |          | not used           |                                    |        |
| J.....4   | 54.01.0237   |          | 20-Pole | CIS Socket Strip                   | AMP      | W....143  |              |          | not used           |                                    |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 1VU PBO PL 1.727.665.82 PAGE 2 |              |          |         |                                    |          | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 1VU PBO PL 1.727.665.82 PAGE 5   |              |          |                    |                                    |        |
| IND.  | POS.NO.      | PART NO. | VALUE   | SPECIFICATIONS / EQUIVALENT        | MANUF.   | IND.  | POS.NO.      | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT        | MANUF. |
| JP....6   | 54.01.0021   |          |         | Bridge                             |          | XB....1   | 53.04.0107   |          |                    | Lamp holder                        |        |
| JP....10  | 54.01.0021   |          |         | Bridge                             |          | XB....2   | 53.04.0107   |          |                    | Lamp holder                        |        |
| JP....11  | 54.01.0021   |          |         | Bridge                             |          |   |              |          |                    |                                    |        |
| JP....12  | 54.01.0021   |          |         | Bridge                             |          | XIC...1   | 53.03.0168   | 16-Pole  | IC Socket          |                                    |        |
| JP....13  | 54.01.0021   |          |         | Bridge                             |          | XIC...2   | 53.03.0168   | 16-Pole  | IC Socket          |                                    |        |
| JP....14  | 54.01.0021   |          |         | Bridge                             |          | XIC...3   | 53.03.0166   | 8-Pole   | IC Socket          |                                    |        |
| JP....15  | 54.01.0021   |          |         | Bridge                             |          | XIC...4   | 53.03.0166   | 8-Pole   | IC Socket          |                                    |        |
| JP....16  | 54.01.0021   |          |         | Bridge                             |          | XIC...5   | 53.03.0167   | 14-Pole  | IC Socket          |                                    |        |
| JP....17  | 54.01.0021   |          |         | Bridge                             |          | XIC...6   | 53.03.0168   | 16-Pole  | IC Socket          |                                    |        |
| JP....46  |              |          |         | not used                           |          | XIC...12  | 53.03.0168   | 16-Pole  | IC Socket          |                                    |        |
| JP....48  | 54.01.0021   |          |         | Bridge                             |          | XIC...13  | 53.03.0168   | 16-Pole  | IC Socket          |                                    |        |
| NE....1   | 1.727.360.01 |          |         | VU Meter                           |          |   |              |          |                    |                                    |        |
| MP....1   | 54.01.0020   |          | 30 pce  | Contact Pin                        |          |   |              |          |                    |                                    |        |
| MP....2   | 1.011.235.03 |          | 3 pce   | Push button case 3x                |          |   |              |          |                    |                                    |        |
| MP....4   | 1.011.235.05 |          | 2 pce   | Push button case 5x                |          |   |              |          |                    |                                    |        |
| MP....5   | 1.011.235.23 |          | 3 pce   | Conductive rubber 3x               |          |   |              |          |                    |                                    |        |
| MP....7   | 1.011.235.25 |          | 2 pce   | Conductive rubber 5x               |          |   |              |          |                    |                                    |        |
| MP....8   | 1.011.235.29 |          | 25 pce  | Bolt                               |          |   |              |          |                    |                                    |        |
| MP....9   | 1.011.235.30 |          | 20 pce  | Push button 14x5                   |          |   |              |          |                    |                                    |        |
| MP....10  | 1.011.235.31 |          | 6 pce   | Dummy calotte                      |          |   |              |          |                    |                                    |        |
| MP....11  | 1.011.235.32 |          | 2 pce   | Calotte red                        |          |   |              |          |                    |                                    |        |
| MP....12  | 1.011.235.33 |          | 14 pce  | Calotte yel                        |          |   |              |          |                    |                                    |        |
| MP....13  | 1.011.235.34 |          | 3 pce   | Calotte grn                        |          |   |              |          |                    |                                    |        |
| MP....14  | 1.727.360.02 |          | 1 pce   | Push button case with Shuttle      |          |   |              |          |                    |                                    |        |
| MP....15  | 1.727.360.03 |          | 1 pce   | Conductive rubber with Shuttle     |          |   |              |          |                    |                                    |        |
| MP....16  | 1.727.360.04 |          | 5 pce   | Push button 19x14                  |          |   |              |          |                    |                                    |        |
| MP....17  | 1.727.360.05 |          | 1 pce   | Push button Adj.                   |          |   |              |          |                    |                                    |        |
| MP....18  | 1.727.665.10 |          | 1 pce   | No. Label                          |          |   |              |          |                    |                                    |        |
| MP....19  | 1.727.660.12 |          | 1 pce   | Command Panel PCB                  |          |   |              |          |                    |                                    |        |
| MP....20  | 53.03.0221   |          | 22 pce  | 2-pole LED Socket                  |          |   |              |          |                    |                                    |        |
| MP....21  | 1.727.362.93 |          | 1 pce   | L-ST Command Panel Board           |          |   |              |          |                    |                                    |        |
| MP....22  | 21.53.0354   |          | 2 pce   | Hexagon socket head cap screw M3x6 |          |   |              |          |                    |                                    |        |
| MP....23  | 23.01.2032   |          | 2 pce   | Washer                             |          |   |              |          |                    |                                    |        |
| MP....24  | 24.16.1030   |          | 2 pce   | Fin washer                         |          |   |              |          |                    |                                    |        |
| MP....25  | 43.01.0108   |          | 1 pce   | ESE Warning label                  |          |   |              |          |                    |                                    |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 1VU PBO PL 1.727.665.82 PAGE 3 |              |          |         |                                    |          | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 1VU PBO PL 1.727.665.82 PAGE 6   |              |          |                    |                                    |        |
|   |              |          |         |                                    |          | CER=Ceramic, EL=Electrolytic, PETP=Polyester, SI=Silicon,<br>MF=Metal Film, PCerm=Pot. Cermet,<br>MANUFACTURER: AMP, GI=General Instrument, ITT, Mot=Motorola,<br>NS=National Semiconductor, Ph=Philips, Ra=Raytheon,<br>TI=Texas Instruments |              |          |                    |                                    |        |
|   |              |          |         |                                    |          | ORIG 91/07/12   |              |          |                    |                                    |        |

## COMMAND PANEL BOARD 0VU (4CH) 1.727.666.82



|               |   |                               |   |                  |
|---------------|---|-------------------------------|---|------------------|
| © 12.07.91 GP | ① | ②                             | ○ | ○                |
| A 807-4 GR 30 |   |                               |   | PAGE 1 OF 1      |
| STUDER        |   | COMMAND PANEL BOARD 0VU (4CH) |   | SCH 1.727.666-82 |

COMMAND PANEL BOARD 0VU (4CH) 1.727.666.82

| IND.   | POS.NO.      | PART NO. | VALUE   | SPECIFICATIONS / EQUIVALENT        | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|--------------|----------|---------|------------------------------------|--------|--|------------|----------|-------|-----------------------------|--------|
| A.....1  | 1.727.370.00 |          |         | Display Board                      |        | S.....6  | 55.15.0130 |          |       | Push button Switch          | ITT    |
| A.....2  | 1.727.180.00 |          |         | Shuttle Control                    |        |  |            |          |       |                             |        |
| C.....1  | 59.06.0683   | 68 nF    | 10%     | 50 V PETP                          |        | W....41  | 64.01.0106 |          |       | Wire Bridge                 |        |
| C.....2  | 59.22.3221   | 220 uF   | -20%    | 10 V EL                            |        | W....42  | 64.01.0106 |          |       | Wire Bridge                 |        |
| C.....3  | 59.22.3221   | 220 uF   | -20%    | 10 V EL                            |        | W....43  | 64.01.0106 |          |       | Wire Bridge                 |        |
| C.....4  | 59.22.3102   | 1000 uF  | -20%    | 10 V EL                            |        | W....46  |            |          |       | not used                    |        |
| C.....25   | 59.06.0683   | 68 nF    | 10%     | 50 V PETP                          |        | W....141   |            |          |       | not used                    |        |
| C.....26   | 59.45.4101   | 100 pF   | 10%     | 50 V CER                           |        | W....142   |            |          |       | not used                    |        |
| C.....27   |              |          |         | not used                           |        | W....143   |            |          |       | not used                    |        |
| C.....28   | 59.45.4101   | 100 pF   | 10%     | 50 V CER                           |        | XIC...1  | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| C.....29   |              |          |         | not used                           |        | XIC...2  | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| C.....30   | 59.45.4101   | 100 pF   | 10%     | 50 V CER                           |        | XIC...12   | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
|  |              |          |         |                                    |        | XIC...13   | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| D.....1  | 50.04.0512   | 1N5818   |         | 30 V Schottky                      |        |  |            |          |       |                             |        |
| D.....30   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| D.....31   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| D.....32   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| D.....33   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| D.....34   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| D.....35   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| D.....36   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| D.....37   | 50.04.0125   | 1N4448   |         | 50 V SI                            |        |  |            |          |       |                             |        |
| DL.....7   | 50.04.2501   | MV5452   | LED grn | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....8   | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....9   | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....10  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....11  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....12  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....13  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....14  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....15  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....16  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....17  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....18  | 50.04.2115   | MV5752   | LED red | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL.....41  | 50.04.2501   | MV5452   | LED grn | D=5 mm                             | GI     |  |            |          |       |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU(4CH) PL 1.727.666.82 PAGE 1 |              |          |         |                                    |        | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU(4CH) PL 1.727.666.82 PAGE 4 |            |          |       |                             |        |
| IND.   | POS.NO.      | PART NO. | VALUE   | SPECIFICATIONS / EQUIVALENT        | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
| DL...42  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL...43  | 50.04.2500   | MV5352   | LED yel | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL...44  | 50.04.2115   | MV5752   | LED red | D=5 mm                             | GI     |  |            |          |       |                             |        |
| DL...46  | 50.04.2501   | MV5452   | LED grn | D=5 mm                             | GI     |  |            |          |       |                             |        |
| IC...1   | 50.17.1595   | 74HC595  |         | 8-Bit Shift Register               | TI     |  |            |          |       |                             |        |
| IC...2   | 50.17.1595   | 74HC595  |         | 8-Bit Shift Register               | TI     |  |            |          |       |                             |        |
| IC...12  | 50.06.0596   | 74LS596  |         | 8-Bit Shift Register O.C.          | TI     |  |            |          |       |                             |        |
| IC...13  | 50.17.1595   | 74HC595  |         | 8-Bit Shift Register               | TI     |  |            |          |       |                             |        |
| J.....1  | 54.01.0287   |          | 3-Pole  | CIS Socket Strip                   | AMP    |  |            |          |       |                             |        |
| J.....2  | 54.01.0288   |          | 5-Pole  | CIS Socket Strip                   | AMP    |  |            |          |       |                             |        |
| J.....3  | 54.01.0237   |          | 20-Pole | CIS Socket Strip                   | AMP    |  |            |          |       |                             |        |
| J.....4  | 54.01.0237   |          | 20-Pole | CIS Socket Strip                   | AMP    |  |            |          |       |                             |        |
| JP...6   | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...10  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...11  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...12  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...13  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...14  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...15  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...16  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...17  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...46  | 54.01.0021   |          |         | Bridge                             |        |  |            |          |       |                             |        |
| JP...48  |              |          |         | not used                           |        |  |            |          |       |                             |        |
| MP...1   | 54.01.0020   |          | 30 pcs  | Contact Pin                        |        |  |            |          |       |                             |        |
| MP...2   | 1.011.235.03 |          | 2 pcs   | Push button case 3a                |        |  |            |          |       |                             |        |
| MP...4   | 1.011.235.05 |          | 2 pcs   | Push button case 5a                |        |  |            |          |       |                             |        |
| MP...5   | 1.011.235.23 |          | 2 pcs   | Conductive rubber 3a               |        |  |            |          |       |                             |        |
| MP...7   | 1.011.235.25 |          | 2 pcs   | Conductive rubber 5a               |        |  |            |          |       |                             |        |
| MP...8   | 1.011.235.29 |          | 22 pcs  | Bolt                               |        |  |            |          |       |                             |        |
| MP...9   | 1.011.235.30 |          | 17 pcs  | Push button 14*5                   |        |  |            |          |       |                             |        |
| MP...10  | 1.011.235.31 |          | 5 pcs   | Dummy calotte                      |        |  |            |          |       |                             |        |
| MP...11  | 1.011.235.32 |          | 2 pcs   | Calotte red                        |        |  |            |          |       |                             |        |
| MP...12  | 1.011.235.33 |          | 12 pcs  | Calotte yel                        |        |  |            |          |       |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU(4CH) PL 1.727.666.82 PAGE 2 |              |          |         |                                    |        |  |            |          |       |                             |        |
| IND.   | POS.NO.      | PART NO. | VALUE   | SPECIFICATIONS / EQUIVALENT        | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
| MP...13  | 1.011.235.34 |          | 3 pcs   | Calotte grn                        |        |  |            |          |       |                             |        |
| MP...14  | 1.727.360.02 |          | 1 pcs   | Push button case with Shuttle      |        |  |            |          |       |                             |        |
| MP...15  | 1.727.360.03 |          | 1 pcs   | Conductive rubber with Shuttle     |        |  |            |          |       |                             |        |
| MP...16  | 1.727.360.04 |          | 5 pcs   | Push button 19*14                  |        |  |            |          |       |                             |        |
| MP...17  | 1.727.360.05 |          | 1 pcs   | Push button Adj.                   |        |  |            |          |       |                             |        |
| MP...18  | 1.727.666.10 |          | 1 pcs   | No. Label                          |        |  |            |          |       |                             |        |
| MP...19  | 1.727.660.12 |          | 1 pcs   | Command Panel PCB                  |        |  |            |          |       |                             |        |
| MP...20  | 53.03.0221   |          | 17 pcs  | 2-pole LED Socket                  |        |  |            |          |       |                             |        |
| MP...22  | 21.53.0354   |          | 2 pcs   | Hexagon socket head cap screw M3*6 |        |  |            |          |       |                             |        |
| MP...23  | 23.01.2032   |          | 2 pcs   | Washer                             |        |  |            |          |       |                             |        |
| MP...24  | 24.16.1030   |          | 2 pcs   | Fin washer                         |        |  |            |          |       |                             |        |
| MP...25  | 43.01.0108   |          | 1 pcs   | ESE Warning label                  |        |  |            |          |       |                             |        |
| MP...26  | 1.727.360.07 |          | 1 pcs   | Push button label , PLAY           |        |  |            |          |       |                             |        |
| MP...27  | 1.727.360.08 |          | 1 pcs   | Push button label , STOP           |        |  |            |          |       |                             |        |
| MP...28  | 1.727.360.09 |          | 1 pcs   | Push button label , RECORD         |        |  |            |          |       |                             |        |
| MP...29  | 1.727.360.19 |          | 2 pcs   | Push button labels, FORWARD,REWIND |        |  |            |          |       |                             |        |
| MP...30  | 1.011.235.35 |          | 1 pcs   | Dummy push button 19*5             |        |  |            |          |       |                             |        |
| R....1   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....2   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....3   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....4   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....5   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....6   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....7   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....8   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....9   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....10  | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....11  | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....15  | 57.11.3102   | 1 kOhm   | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....101   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....102   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....103   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....104   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....106   | 57.11.3391   | 390 Ohm  | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....110   | 57.11.3102   | 1 kOhm   | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| R....111   | 57.11.3102   | 1 kOhm   | 1%      | 0.25W, MF                          |        |  |            |          |       |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU(4CH) PL 1.727.666.82 PAGE 3 |              |          |         |                                    |        |  |            |          |       |                             |        |

## COMMAND PANEL BOARD UNCAL PBO (2CH) 1.727.667.82

| IND.     | POS.NO.      | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.    | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|--------------|----------|-------|-----------------------------|--------|----------|------------|----------|--------------------|-----------------------------|--------|
| A.....1  | 1.727.370.00 |          |       | Display Board               |        | R...101  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| A.....2  | 1.727.180.00 |          |       | Shuttle Control             |        | R...102  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....1  | 59.06.0683   | 68 nF    | 10%   | 50 V PETP                   |        | R...103  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....2  | 59.22.3221   | 220 uF   | -20%  | 10 V EL                     |        | R...104  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....3  | 59.22.3221   | 220 uF   | -20%  | 10 V EL                     |        | R...105  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....4  | 59.22.3102   | 1000 uF  | -20%  | 10 V EL                     |        | R...106  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....15 | 59.06.0683   | 68 nF    | 10%   | 50 V PETP                   |        | R...107  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....25 | 59.06.0683   | 68 nF    | 10%   | 50 V PETP                   |        | R...108  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....26 | 59.45.4101   | 100 pF   | 10%   | 50 V CER                    |        | R...109  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....27 |              |          |       | not used                    |        | R...110  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C.....28 | 59.45.4101   | 100 pF   | 10%   | 50 V CER                    |        | R...111  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C.....29 |              |          |       | not used                    |        | S.....6  | 55.15.0130 |          | Push button Switch |                             | ITT    |
| C.....30 | 59.45.4101   | 100 pF   | 10%   | 50 V CER                    |        | W....41  | 64.01.0106 |          | Wire Bridge        |                             |        |
| C.....31 | 59.45.4101   | 100 pF   | 10%   | 50 V CER                    |        | W....42  | 64.01.0106 |          | Wire Bridge        |                             |        |
| D.....1  | 50.04.0512   | 1N5818   |       | 30 V Schottky               |        | W....43  | 64.01.0106 |          | Wire Bridge        |                             |        |
| D.....30 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | W....46  | 64.01.0106 |          | Wire Bridge        |                             |        |
| D.....31 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | W....141 |            |          | not used           |                             |        |
| D.....32 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | W....142 |            |          | not used           |                             |        |
| D.....33 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | W....143 |            |          | not used           |                             |        |
| D.....34 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | XIC...1  | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| D.....35 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | XIC...2  | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| D.....36 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | XIC...6  | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| D.....37 | 50.04.0125   | 1N4448   |       | 50 V SI                     |        | XIC...7  | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL....7  | 50.04.2501   | MV5452   |       | LED grn D=5 mm              | GI     | XIC...12 | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL....8  | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....9  | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....10 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....11 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....12 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....13 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....14 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....15 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....16 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |
| DL....17 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |          |            |          |                    |                             |        |

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| IND.     | POS.NO.      | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|--------------|----------|-------|-----------------------------|--------|
| DL....41 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |
| DL....42 | 50.04.2501   | MV5452   |       | LED grn D=5 mm              | GI     |
| DL....43 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |
| DL....44 | 50.04.2115   | MV5752   |       | LED red D=5 mm              | GI     |
| DL....45 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |
| DL....46 | 50.04.2500   | MV5352   |       | LED yel D=5 mm              | GI     |
| DL....47 | 50.04.2115   | MV5752   |       | LED red D=5 mm              | GI     |
| DL....48 | 50.04.2501   | MV5452   |       | LED grn D=5 mm              | GI     |
| DL....49 | 50.04.2115   | MV5752   |       | LED red D=5 mm              | GI     |
| IC....1  | 50.17.1595   | 74HC595  |       | 8-Bit Shift Register        | TI     |
| IC....2  | 50.17.1595   | 74HC595  |       | 8-Bit Shift Register        | TI     |
| IC....6  | 50.17.1595   | 74HC595  |       | 8-Bit Shift Register        | TI     |
| IC....7  | 50.17.1595   | 74HC595  |       | 8-Bit Shift Register        | TI     |
| IC....12 | 50.06.0596   | 74LS596  |       | 8-Bit Shift Register O.C.   | TI     |
| IC....13 | 50.17.1595   | 74HC595  |       | 8-Bit Shift Register        | TI     |
| J.....1  | 54.01.0287   | 3-Pole   |       | CIS Socket Strip            | AMP    |
| J.....2  | 54.01.0288   | 5-Pole   |       | CIS Socket Strip            | AMP    |
| J.....3  | 54.01.0237   | 20-Pole  |       | CIS Socket Strip            | AMP    |
| J.....4  | 54.01.0237   | 20-Pole  |       | CIS Socket Strip            | AMP    |
| JP....6  | 54.01.0021   |          |       | Bridge                      |        |
| JP....10 | 54.01.0021   |          |       | Bridge                      |        |
| JP....11 | 54.01.0021   |          |       | Bridge                      |        |
| JP....12 | 54.01.0021   |          |       | Bridge                      |        |
| JP....13 | 54.01.0021   |          |       | Bridge                      |        |
| JP....14 | 54.01.0021   |          |       | Bridge                      |        |
| JP....15 | 54.01.0021   |          |       | Bridge                      |        |
| JP....16 | 54.01.0021   |          |       | Bridge                      |        |
| JP....17 | 54.01.0021   |          |       | Bridge                      |        |
| JP....46 |              |          |       | not used                    |        |
| JP....48 | 54.01.0021   |          |       | Bridge                      |        |
| MP....1  | 54.01.0020   | 30 pcs   |       | Contact Pin                 |        |
| MP....2  | 1.011.235.03 | 3 pcs    |       | Push button case 3a         |        |
| MP....4  | 1.011.235.05 | 2 pcs    |       | Push button case 5a         |        |

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| IND.     | POS.NO.      | PART NO. | VALUE         | SPECIFICATIONS / EQUIVALENT         | MANUF. |
|----------|--------------|----------|---------------|-------------------------------------|--------|
| MP....5  | 1.011.235.23 | 3 pcs    |               | Conductive rubber 3a                |        |
| MP....7  | 1.011.235.25 | 2 pcs    |               | Conductive rubber 5a                |        |
| MP....8  | 1.011.235.29 | 26 pcs   |               | Bolt                                |        |
| MP....9  | 1.011.235.30 | 21 pcs   |               | Push button label 14x5              |        |
| MP....10 | 1.011.235.31 | 6 pcs    |               | Dummy calotte                       |        |
| MP....11 | 1.011.235.32 | 3 pcs    |               | Calotte red                         |        |
| MP....12 | 1.011.235.33 | 14 pcs   |               | Calotte yel                         |        |
| MP....13 | 1.011.235.34 | 3 pcs    |               | Calotte grn                         |        |
| MP....14 | 1.727.360.02 | 1 pcs    |               | Push button case with Shuttle       |        |
| MP....15 | 1.727.360.03 | 1 pcs    |               | Conductive rubber with Shuttle      |        |
| MP....16 | 1.727.360.04 | 5 pcs    |               | Push button 19x14                   |        |
| MP....17 | 1.727.360.05 | 1 pcs    |               | Push button Adj.                    |        |
| MP....18 | 1.727.667.10 | 1 pcs    |               | No. Label                           |        |
| MP....19 | 1.727.660.12 | 1 pcs    |               | Command Panel PCB                   |        |
| MP....20 | 53.03.0221   | 20 pcs   |               | 2-pole LED Socket                   |        |
| MP....22 | 21.53.0354   | 2 pcs    |               | Hexagon socket head cap screw M3x6  |        |
| MP....23 | 23.01.2032   | 2 pcs    |               | Washer                              |        |
| MP....24 | 24.16.1030   | 2 pcs    |               | Fin washer                          |        |
| MP....25 | 43.01.0108   | 1 pcs    |               | ESE Warning label                   |        |
| MP....26 | 1.727.360.07 | 1 pcs    |               | Push button label, PLAY             |        |
| MP....27 | 1.727.360.08 | 1 pcs    |               | Push button label, STOP             |        |
| MP....28 | 1.727.364.02 | 1 pcs    |               | Push button label, blank (for S18)  |        |
| MP....29 | 1.727.360.19 | 2 pcs    |               | Push button labels, FORWARD, REWIND |        |
| R.....1  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....2  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....3  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....4  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....5  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....6  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....7  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....8  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....9  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....10 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....11 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....15 | 57.11.3102   | 1 kOhm   | 1%, 0.25W, MF |                                     |        |
| R.....55 | 57.11.3102   | 1 kOhm   | 1%, 0.25W, MF |                                     |        |

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| IND.    | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.    | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|--------------|----------|----------------|-----------------------------|--------|----------|------------|----------|--------------------|-----------------------------|--------|
| A....1  | 1.727.370.00 |          |                | Display Board               |        | R...102  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| A....2  | 1.727.180.00 |          |                | Shuttle Control             |        | R...103  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....1  | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | R...104  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....2  | 59.22.3221   | 220 uF   | -20%           | 10 V EL                     |        | R...105  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....3  | 59.22.3221   | 220 uF   | -20%           | 10 V EL                     |        | R...106  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....4  | 59.22.3102   | 1000 uF  | -20%           | 10 V EL                     |        | R...107  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....15 | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | R...108  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....25 | 59.06.0683   | 68 nF    | 10%            | 50 V PETP                   |        | R...109  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C....26 | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | R...110  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C....27 |              |          |                | not used                    |        | R...111  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C....28 | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | S....6   | 55.15.0130 |          | Push button Switch | ITT                         |        |
| C....29 |              |          |                | not used                    |        | W....41  | 64.01.0106 |          | Wire Bridge        |                             |        |
| C....30 | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | W....42  | 64.01.0106 |          | Wire Bridge        |                             |        |
| C....31 | 59.45.4101   | 100 pF   | 10%            | 50 V CER                    |        | W....43  | 64.01.0106 |          | Wire Bridge        |                             |        |
| D....1  | 50.04.0512   | 1N5818   | 30 V           | Schottky                    |        | W....46  | 64.01.0106 |          | Wire Bridge        |                             |        |
| D....30 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | W....141 |            |          | not used           |                             |        |
| D....31 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | W....142 |            |          | not used           |                             |        |
| D....32 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | W....143 |            |          | not used           |                             |        |
| D....33 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | XIC...1  | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| D....34 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | XIC...2  | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| D....35 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | XIC...6  | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| D....36 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | XIC...12 | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| D....37 | 50.04.0125   | 1N4448   | 50 V           | SI                          |        | XIC...13 | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL...7  | 50.04.2501   | MV5452   | LED grn D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...8  | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...9  | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...10 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...11 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...12 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...13 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...14 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...15 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...16 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |
| DL...17 | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          |        |          |            |          |                    |                             |        |

CER=Ceramic, EL=Electrolytic, PETP=Polyester, SI=Silicon,  
MF=Metal Film, PCerm=Pot. Cermet,  
MANUFACTURER: AMP, GI=General Instrument, ITT, Mot=Motorola,  
NS=National Semiconductor, Ph=Philips, Ra=Raytheon,  
TI=Texas Instruments

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| IND.    | POS.NO.      | PART NO. | VALUE                     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|--------------|----------|---------------------------|-----------------------------|--------|
| DL...41 | 50.04.2500   | MV5352   | LED yel D=5 mm            | GI                          |        |
| DL...42 | 50.04.2501   | MV5452   | LED grn D=5 mm            | GI                          |        |
| DL...43 | 50.04.2500   | MV5352   | LED yel D=5 mm            | GI                          |        |
| DL...44 | 50.04.2115   | MV5752   | LED red D=5 mm            | GI                          |        |
| DL...45 | 50.04.2500   | MV5352   | LED yel D=5 mm            | GI                          |        |
| DL...46 | 50.04.2500   | MV5352   | LED yel D=5 mm            | GI                          |        |
| DL...47 | 50.04.2115   | MV5752   | LED red D=5 mm            | GI                          |        |
| DL...48 | 50.04.2501   | MV5452   | LED grn D=5 mm            | GI                          |        |
| IC...1  | 50.17.1595   | 74HC595  | 8-Bit Shift Register      | TI                          |        |
| IC...2  | 50.17.1595   | 74HC595  | 8-Bit Shift Register      | TI                          |        |
| IC...6  | 50.17.1595   | 74HC595  | 8-Bit Shift Register      | TI                          |        |
| IC...12 | 50.06.0596   | 74LS596  | 8-Bit Shift Register O.C. | TI                          |        |
| IC...13 | 50.17.1595   | 74HC595  | 8-Bit Shift Register      | TI                          |        |
| J....1  | 54.01.0287   | 3-Pole   | CIS Socket Strip          | AMP                         |        |
| J....2  | 54.01.0288   | 5-Pole   | CIS Socket Strip          | AMP                         |        |
| J....3  | 54.01.0237   | 20-Pole  | CIS Socket Strip          | AMP                         |        |
| J....4  | 54.01.0237   | 20-Pole  | CIS Socket Strip          | AMP                         |        |
| JP...6  | 54.01.0021   |          | Bridge                    |                             |        |
| JP...10 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...11 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...12 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...13 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...14 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...15 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...16 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...17 | 54.01.0021   |          | Bridge                    |                             |        |
| JP...46 |              |          | not used                  |                             |        |
| JP...48 | 54.01.0021   |          | Bridge                    |                             |        |
| MP...1  | 54.01.0020   | 30 pcs   | Contact Pin               |                             |        |
| MP...2  | 1.011.235.03 | 3 pcs    | Push button case 3*       |                             |        |
| MP...4  | 1.011.235.05 | 2 pcs    | Push button case 5*       |                             |        |
| MP...5  | 1.011.235.23 | 3 pcs    | Conductive rubber 3*      |                             |        |
| MP...7  | 1.011.235.25 | 2 pcs    | Conductive rubber 5*      |                             |        |

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| IND.    | POS.NO.      | PART NO. | VALUE                               | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|--------------|----------|-------------------------------------|-----------------------------|--------|
| MP...8  | 1.011.235.29 | 25 pcs   | Bolt                                |                             |        |
| MP...9  | 1.011.235.30 | 20 pcs   | Push button 14*5                    |                             |        |
| MP...10 | 1.011.235.31 | 6 pcs    | Dummy calotte                       |                             |        |
| MP...11 | 1.011.235.32 | 2 pcs    | Calotte red                         |                             |        |
| MP...12 | 1.011.235.33 | 14 pcs   | Calotte yel                         |                             |        |
| MP...13 | 1.011.235.34 | 3 pcs    | Calotte grn                         |                             |        |
| MP...14 | 1.727.360.02 | 1 pce    | Push button case with Shuttle       |                             |        |
| MP...15 | 1.727.360.03 | 1 pce    | Conductive rubber with Shuttle      |                             |        |
| MP...16 | 1.727.360.04 | 5 pcs    | Push button 19*14                   |                             |        |
| MP...17 | 1.727.360.05 | 1 pce    | Push button Adj.                    |                             |        |
| MP...18 | 1.727.668.10 | 1 pce    | No. Label                           |                             |        |
| MP...19 | 1.727.660.12 | 1 pce    | Command Panel PCB                   |                             |        |
| MP...20 | 53.03.0221   | 19 pcs   | 2-pole LED Socket                   |                             |        |
| MP...22 | 21.53.0354   | 2 pcs    | Hexagon socket head cap screw M3*6  |                             |        |
| MP...23 | 23.01.2032   | 2 pcs    | Washer                              |                             |        |
| MP...24 | 24.16.1030   | 2 pcs    | Pin washer                          |                             |        |
| MP...25 | 43.01.0108   | 1 pce    | ESE Marking label                   |                             |        |
| MP...26 | 1.727.360.07 | 1 pce    | Push button label , PLAY            |                             |        |
| MP...27 | 1.727.360.08 | 1 pce    | Push button label , STOP            |                             |        |
| MP...28 | 1.727.364.02 | 1 pce    | Push button label , blank (for S18) |                             |        |
| MP...29 | 1.727.360.19 | 2 pcs    | Push button labels, FORWARD,REWIND  |                             |        |
| MP...30 | 1.011.235.35 | 1 pce    | Dummy push button 19*5              |                             |        |
| R....1  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....2  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....3  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....4  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....5  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....6  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....7  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....8  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....9  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....10 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....11 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |
| R....15 | 57.11.3102   | 1 kOhm   | 1%, 0.25W, MF                       |                             |        |
| R....55 | 57.11.3102   | 1 kOhm   | 1%, 0.25W, MF                       |                             |        |
| R...101 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                       |                             |        |

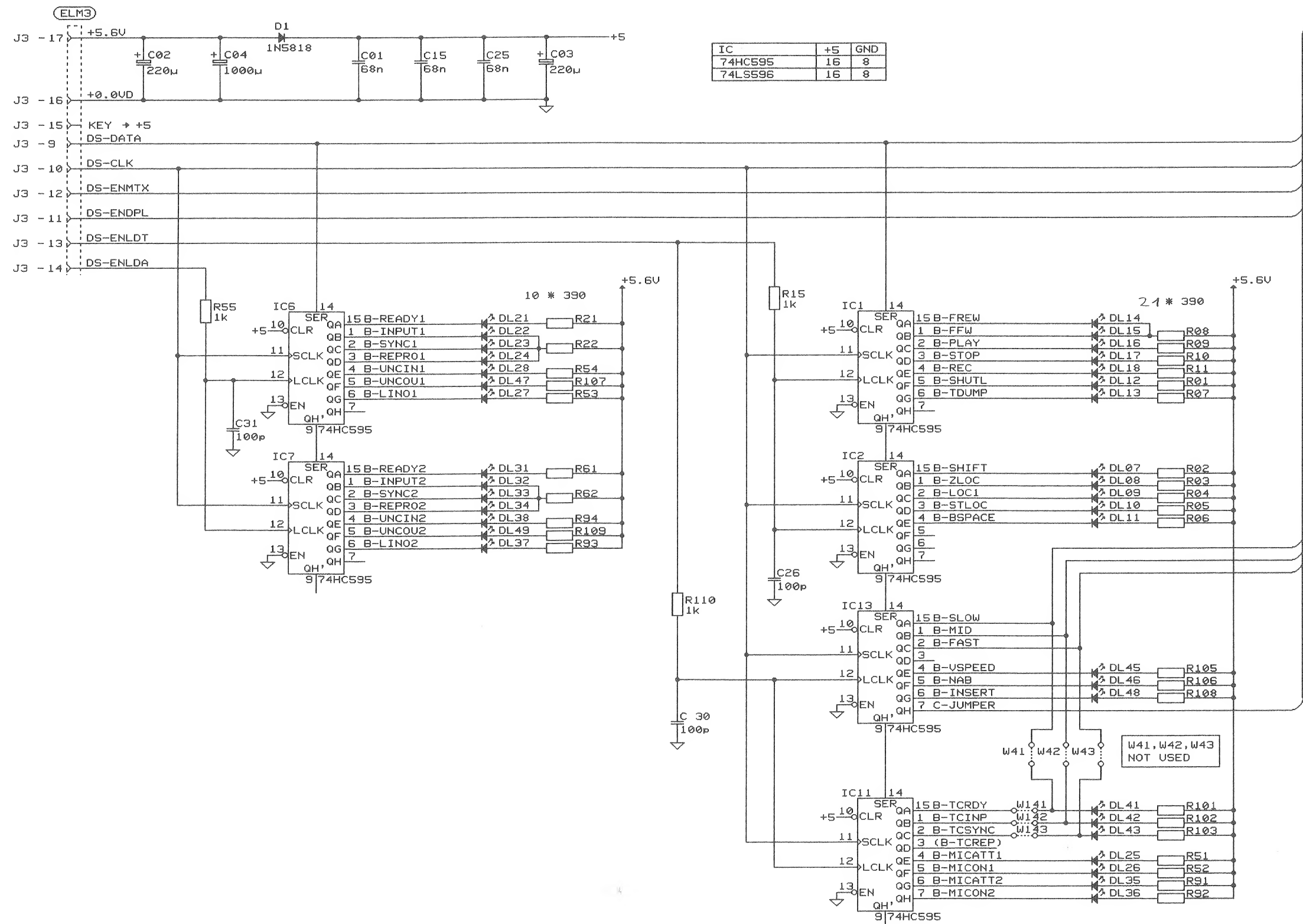
S T U D E R (00) 91/07/12 GP COMMAND PAN.BOARD UNC MONO PBO PL 1.727.668.82 PAGE 3



## COMMAND PANEL BOARD 0VU TC (2CH) 1.727.760.82

| IND.   | POS.NO.      | PART NO. | VALUE                              | SPECIFICATIONS / EQUIVALENT | MANUF.   | IND.   | POS.NO.    | PART NO.      | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|--------------|----------|------------------------------------|-----------------------------|----------|--|------------|---------------|--------------------|-----------------------------|--------|
| A....1   | 1.727.370.00 |          |                                    | Display Board               |          | R...108  | 57.11.3391 | 390 Ohm       | 1%, 0.25W, MF      |                             |        |
| A....2   | 1.727.180.00 |          |                                    | Shuttle Control             |          | R...110  | 57.11.3102 | 1 kOhm        | 1%, 0.25W, MF      |                             |        |
| C....1   | 59.06.0683   | 68 nF    | 10% 50 V PETP                      |                             | R...111  | 57.11.3102   | 1 kOhm     | 1%, 0.25W, MF |                    |                             |        |
| C....2   | 59.22.3221   | 220 uF   | -20% 10 V EL                       |                             | S....6   | 55.15.0130   |            |               | Push button Switch | ITT                         |        |
| C....3   | 59.22.3221   | 220 uF   | -20% 10 V EL                       |                             | W....41  |  |            |               | not used           |                             |        |
| C....4   | 59.22.3102   | 1000 uF  | -20% 10 V EL                       |                             | W....42  |  |            |               | not used           |                             |        |
| C....25  | 59.06.0683   | 68 nF    | 10% 50 V PETP                      |                             | W....43  |  |            |               | not used           |                             |        |
| C....26  | 59.45.4101   | 100 pF   | 10% 50 V CER                       |                             | W....46  | 64.01.0106   |            |               | Wire Bridge        |                             |        |
| C....27  |              | not used |                                    |                             | W....141 | 64.01.0106   |            |               | Wire Bridge        |                             |        |
| C....28  | 59.45.4101   | 100 pF   | 10% 50 V CER                       |                             | W....142 | 64.01.0106   |            |               | Wire Bridge        |                             |        |
| C....29  |              | not used |                                    |                             | W....143 | 64.01.0106   |            |               | Wire Bridge        |                             |        |
| C....30  | 59.45.4101   | 100 pF   | 10% 50 V CER                       |                             |          |  |            |               |                    |                             |        |
| D....1   | 50.04.0512   | 1N5818   | 30 V Schottky                      |                             | XIC...1  | 53.03.0168   | 16-Pole    |               | IC Socket          |                             |        |
| D....30  | 50.04.0125   | 1N4448   | 50 V SI                            |                             | XIC...2  | 53.03.0168   | 16-Pole    |               | IC Socket          |                             |        |
| D....31  | 50.04.0125   | 1N4448   | 50 V SI                            |                             | XIC...11 | 53.03.0168   | 16-Pole    |               | IC Socket          |                             |        |
| D....32  | 50.04.0125   | 1N4448   | 50 V SI                            |                             | XIC...12 | 53.03.0168   | 16-Pole    |               | IC Socket          |                             |        |
| D....33  | 50.04.0125   | 1N4448   | 50 V SI                            |                             | XIC...13 | 53.03.0168   | 16-Pole    |               | IC Socket          |                             |        |
| D....34  | 50.04.0125   | 1N4448   | 50 V SI                            |                             |          |  |            |               |                    |                             |        |
| D....35  | 50.04.0125   | 1N4448   | 50 V SI                            |                             |          |  |            |               |                    |                             |        |
| D....36  | 50.04.0125   | 1N4448   | 50 V SI                            |                             |          |  |            |               |                    |                             |        |
| D....37  | 50.04.0125   | 1N4448   | 50 V SI                            |                             |          |  |            |               |                    |                             |        |
| DL...7   | 50.04.2501   | MV5452   | LED grn D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...8   | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...9   | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...10  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...11  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...12  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...13  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...14  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...15  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...16  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...17  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...18  | 50.04.2115   | MV5752   | LED red D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...41  | 50.04.2115   | MV5752   | LED red D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU TC PL 1.727.760.82 PAGE 1 |              |          |                                    |                             |          | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU TC PL 1.727.760.82 PAGE 4 |            |               |                    |                             |        |
| IND.   | POS.NO.      | PART NO. | VALUE                              | SPECIFICATIONS / EQUIVALENT | MANUF.   | IND.   | POS.NO.    | PART NO.      | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
| DL...42  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...43  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...45  | 50.04.2115   | MV5752   | LED red D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...46  | 50.04.2500   | MV5352   | LED yel D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| DL...48  | 50.04.2501   | MV5452   | LED grn D=5 mm                     | GI                          |          |  |            |               |                    |                             |        |
| IC...1   | 50.17.1595   | 74HC595  | 8-Bit Shift Register               | TI                          |          |  |            |               |                    |                             |        |
| IC...2   | 50.17.1595   | 74HC595  | 8-Bit Shift Register               | TI                          |          |  |            |               |                    |                             |        |
| IC...11  | 50.17.1595   | 74HC595  | 8-Bit Shift Register               | TI                          |          |  |            |               |                    |                             |        |
| IC...12  | 50.06.0596   | 74LS596  | 8-Bit Shift Register O.C.          | TI                          |          |  |            |               |                    |                             |        |
| IC...13  | 50.17.1595   | 74HC595  | 8-Bit Shift Register               | TI                          |          |  |            |               |                    |                             |        |
| J....1   | 54.01.0287   | 3-Pole   | CIS Socket Strip                   | AMP                         |          |  |            |               |                    |                             |        |
| J....2   | 54.01.0288   | 5-Pole   | CIS Socket Strip                   | AMP                         |          |  |            |               |                    |                             |        |
| J....3   | 54.01.0237   | 20-Pole  | CIS Socket Strip                   | AMP                         |          |  |            |               |                    |                             |        |
| J....4   | 54.01.0237   | 20-Pole  | CIS Socket Strip                   | AMP                         |          |  |            |               |                    |                             |        |
| JP...6   | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...10  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...11  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...12  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...13  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...14  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...15  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...16  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...17  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| JP...46  |              |          | not used                           |                             |          |  |            |               |                    |                             |        |
| JP...48  | 54.01.0021   |          | Bridge                             |                             |          |  |            |               |                    |                             |        |
| MP...1   | 54.01.0020   | 30 pcs   | Contact Pin                        |                             |          |  |            |               |                    |                             |        |
| MP...2   | 1.011.235.03 | 3 pcs    | Push button case 3*                |                             |          |  |            |               |                    |                             |        |
| MP...4   | 1.011.235.05 | 2 pcs    | Push button case 5*                |                             |          |  |            |               |                    |                             |        |
| MP...5   | 1.011.235.23 | 3 pcs    | Conductive rubber 3*               |                             |          |  |            |               |                    |                             |        |
| MP...7   | 1.011.235.25 | 2 pcs    | Conductive rubber 5*               |                             |          |  |            |               |                    |                             |        |
| MP...8   | 1.011.235.29 | 24 pcs   | Bolt                               |                             |          |  |            |               |                    |                             |        |
| MP...9   | 1.011.235.30 | 19 pcs   | Push button 14*5                   |                             |          |  |            |               |                    |                             |        |
| MP...10  | 1.011.235.31 | 6 pcs    | Dummy caplet                       |                             |          |  |            |               |                    |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU TC PL 1.727.760.82 PAGE 2 |              |          |                                    |                             |          |  |            |               |                    |                             |        |
| IND.   | POS.NO.      | PART NO. | VALUE                              | SPECIFICATIONS / EQUIVALENT | MANUF.   | IND.   | POS.NO.    | PART NO.      | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
| MP...11  | 1.011.235.32 | 3 pcs    | Caplet red                         |                             |          |  |            |               |                    |                             |        |
| MP...12  | 1.011.235.33 | 13 pcs   | Caplet yel                         |                             |          |  |            |               |                    |                             |        |
| MP...13  | 1.011.235.34 | 2 pcs    | Caplet grn                         |                             |          |  |            |               |                    |                             |        |
| MP...14  | 1.727.360.02 | 1 pcs    | Push button case with Shuttle      |                             |          |  |            |               |                    |                             |        |
| MP...15  | 1.727.360.03 | 1 pcs    | Conductive rubber with Shuttle     |                             |          |  |            |               |                    |                             |        |
| MP...16  | 1.727.360.04 | 5 pcs    | Push button 19*14                  |                             |          |  |            |               |                    |                             |        |
| MP...17  | 1.727.360.05 | 1 pcs    | Push button Adj.                   |                             |          |  |            |               |                    |                             |        |
| MP...18  | 1.727.760.10 | 1 pcs    | No. Label                          |                             |          |  |            |               |                    |                             |        |
| MP...19  | 1.727.660.12 | 1 pcs    | Command Panel PCB                  |                             |          |  |            |               |                    |                             |        |
| MP...20  | 53.03.0221   | 18 pcs   | 2-pole LED Socket                  |                             |          |  |            |               |                    |                             |        |
| MP...22  | 21.53.0354   | 2 pcs    | Hexagon socket head cap screw M3*6 |                             |          |  |            |               |                    |                             |        |
| MP...23  | 23.01.2032   | 2 pcs    | Washer                             |                             |          |  |            |               |                    |                             |        |
| MP...24  | 24.16.1030   | 2 pcs    | Pin washer                         |                             |          |  |            |               |                    |                             |        |
| MP...25  | 43.01.0108   | 1 pcs    | ESE Warning label                  |                             |          |  |            |               |                    |                             |        |
| MP...26  | 1.727.360.07 | 1 pcs    | Push button label , PLAY           |                             |          |  |            |               |                    |                             |        |
| MP...27  | 1.727.360.08 | 1 pcs    | Push button label , STOP           |                             |          |  |            |               |                    |                             |        |
| MP...28  | 1.727.360.09 | 1 pcs    | Push button label , RECORD         |                             |          |  |            |               |                    |                             |        |
| MP...29  | 1.727.360.19 | 2 pcs    | Push button labels, FORWARD,REWIND |                             |          |  |            |               |                    |                             |        |
| MP...30  | 1.011.235.35 | 2 pcs    | Dummy push button 19*5             |                             |          |  |            |               |                    |                             |        |
| R....1   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....2   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....3   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....4   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....5   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....6   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....7   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....8   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....9   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....10  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....11  | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....15  | 57.11.3102   | 1 kOhm   | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....101   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....102   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....103   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....105   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| R....106   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF                      |                             |          |  |            |               |                    |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 0VU TC PL 1.727.760.82 PAGE 3 |              |          |                                    |                             |          |  |            |               |                    |                             |        |

## COMMAND PANEL BOARD 2VU TC (2CH) 1.727.762.82

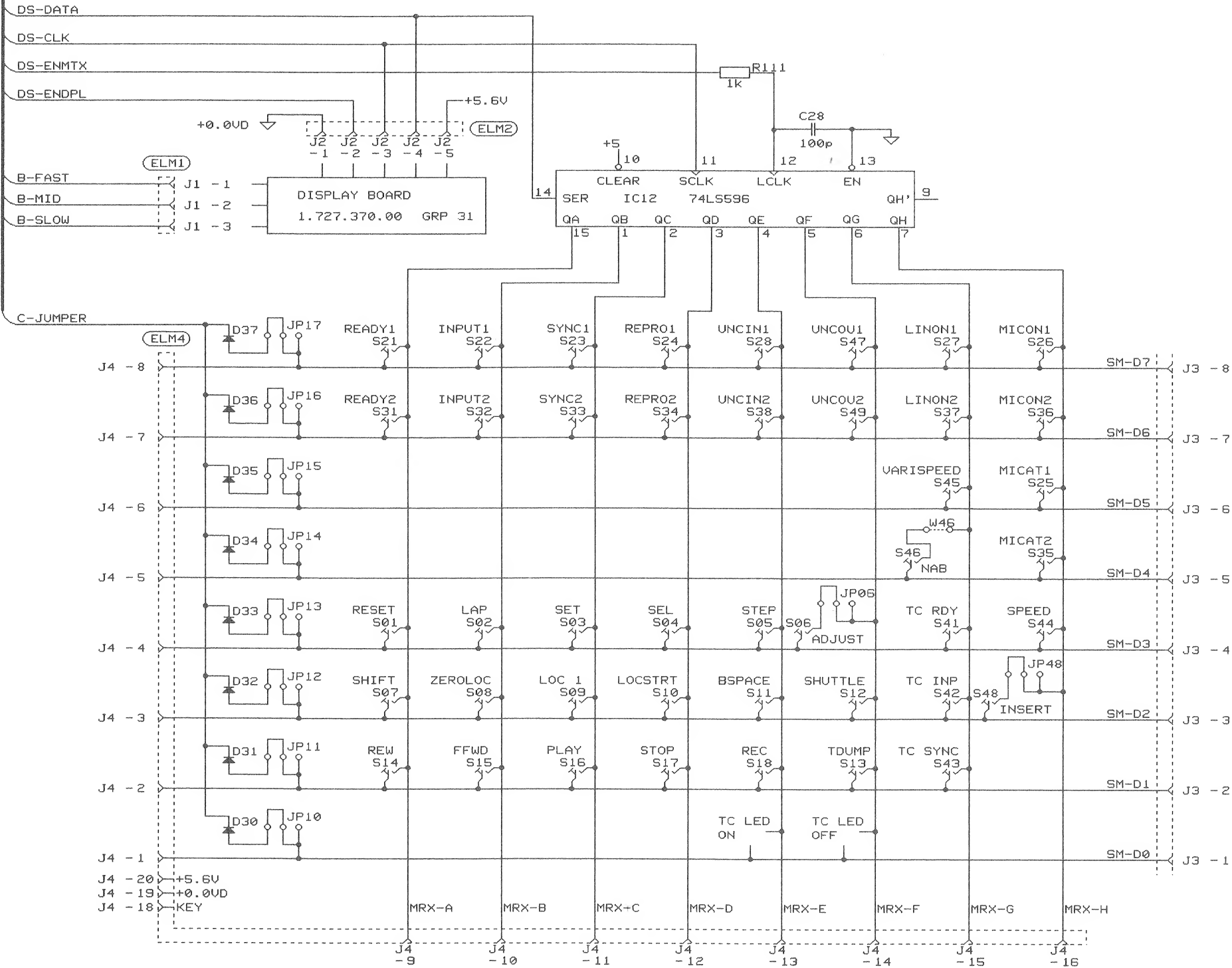


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| A 807-TC GR 30 |   |                             |   | PAGE 1 OF 3      |
| STUDER         |   | COMMAND PANEL BOARD 2 VU TC |   | SCH 1.727.762-82 |

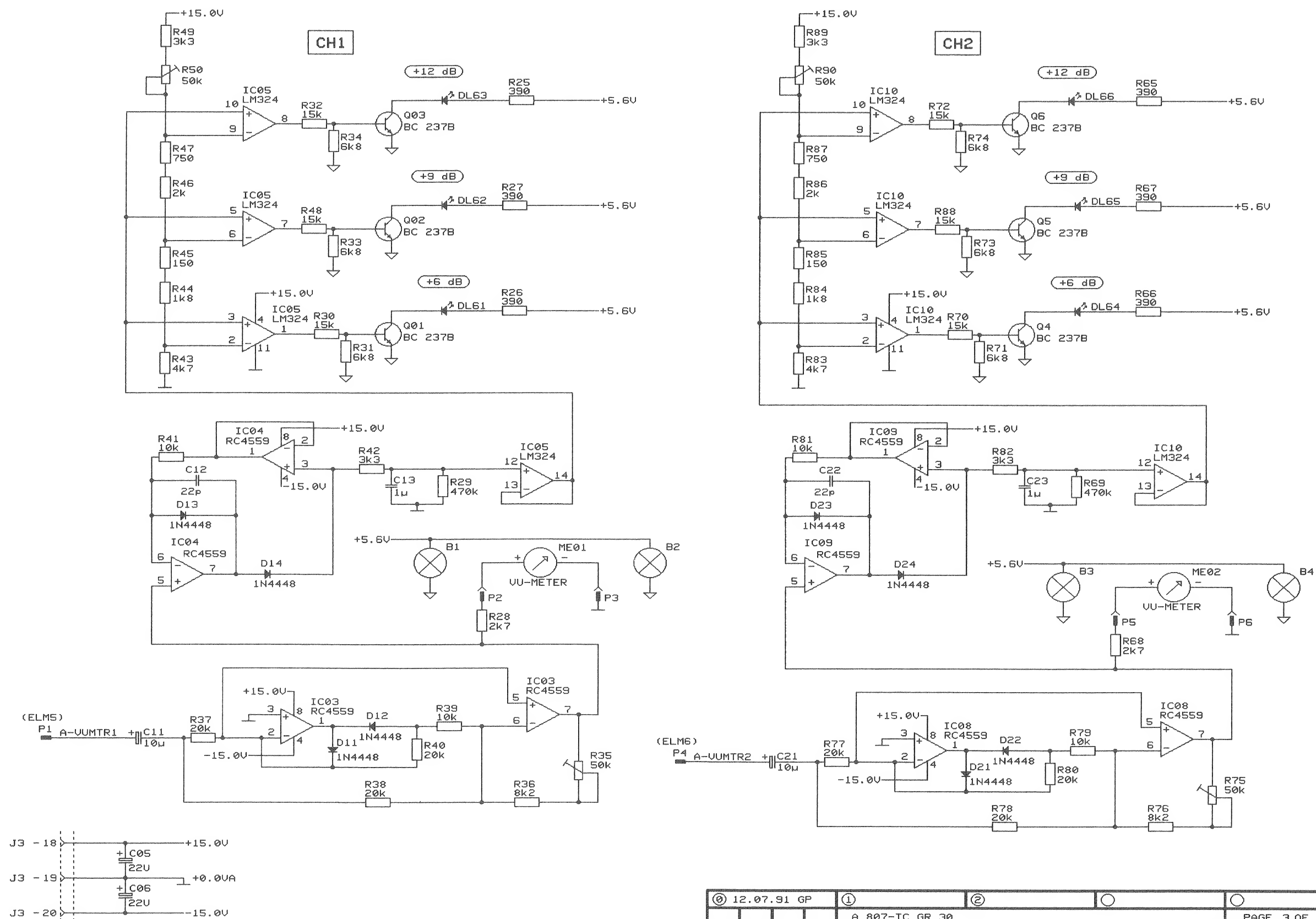
COMMAND PANEL BOARD 2VU TC (2CH) 1.727.762.82

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|               | A 807-TC GR 30 |                             |   | PAGE 2 OF 3      |
| STUDER        |                | COMMAND PANEL BOARD 2 VU TC |   | SCH 1.727.762-82 |

## COMMAND PANEL BOARD 2VU TC (2CH) 1.727.762.82



|               |                             |     |              |             |
|---------------|-----------------------------|-----|--------------|-------------|
| ② 12.07.91 GP | ①                           | ②   | ○            | ○           |
|               | A 807-TC GR 30              |     |              | PAGE 3 OF 3 |
| STUDER        | COMMAND PANEL BOARD 2 VU TC | SCH | 1.727.762-82 |             |

STUDER A807 MKII

COMMAND PANEL BOARD 2VU TC (2CH) 1.727.762.82

| IND.   | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF.  | IND.   | POS.NO.      | PART NO.       | VALUE        | SPECIFICATIONS / EQUIVALENT        | MANUF.  | IND.   | POS.NO.    | PART NO.  | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|--------------|----------|----------------|-----------------------------|---------|--|--------------|----------------|--------------|------------------------------------|---------|--|------------|-----------|-------------|-----------------------------|--------|
| A.....1  | 1.727.370.00 |          |                | Display Board               |         | JP....11   | 54.01.0021   |                |              | Bridge                             |         | R....72  | 57.11.3153 |           | 15 kOhm     | 1%, 0.25W, MF               |        |
| A.....2  | 1.727.180.00 |          |                | Shuttle Control             |         | JP....12   | 54.01.0021   |                |              | Bridge                             |         | R....73  | 57.11.3682 |           | 6.8 kOhm    | 1%, 0.25W, MF               |        |
| B.....1  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |         | JP....13   | 54.01.0021   |                |              | Bridge                             |         | R....74  | 57.11.3682 |           | 6.8 kOhm    | 1%, 0.25W, MF               |        |
| B.....2  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |         | JP....14   | 54.01.0021   |                |              | Bridge                             |         | R....75  | 58.01.8503 |           | 50 kOhm     | 10%, 0.5 W, PCerm           |        |
| B.....3  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |         | JP....15   | 54.01.0021   |                |              | Bridge                             |         | R....76  | 57.11.3682 |           | 8.2 kOhm    | 1%, 0.25W, MF               |        |
| B.....4  | 51.02.0144   | 6 V      | 0.03 A         | Lamp                        |         | JP....16   | 54.01.0021   |                |              | Bridge                             |         | R....77  | 57.11.3203 |           | 20 kOhm     | 1%, 0.25W, MF               |        |
| C.....1  | 59.06.0683   | 68 nF    | 10X            | 50 V PETP                   |         | JP....17   | 54.01.0021   |                |              | Bridge                             |         | R....78  | 57.11.3203 |           | 20 kOhm     | 1%, 0.25W, MF               |        |
| C.....2  | 59.22.3221   | 220 uF   | -20X           | 10 V EL                     |         | JP....46   |              |                |              | not used                           |         | R....79  | 57.11.3103 |           | 10 kOhm     | 1%, 0.25W, MF               |        |
| C.....3  | 59.22.3221   | 220 uF   | -20X           | 10 V EL                     |         | JP....48   | 54.01.0021   |                |              | Bridge                             |         | R....80  | 57.11.3203 |           | 20 kOhm     | 1%, 0.25W, MF               |        |
| C.....4  | 59.22.3102   | 1000 uF  | -20X           | 10 V EL                     | ME....1 | 1.727.360.01   |              |                |              | VU Meter                           |         | R....81  | 57.11.3103 |           | 10 kOhm     | 1%, 0.25W, MF               |        |
| C.....5  | 59.22.5220   | 22 uF    | -20X           | 25 V EL                     | ME....2 | 1.727.360.01   |              |                |              | VU Meter                           |         | R....82  | 57.11.3332 |           | 3.3 kOhm    | 1%, 0.25W, MF               |        |
| C.....6  | 59.22.5220   | 22 uF    | -20X           | 25 V EL                     | MP....1 | 54.01.0020   | 30 pcc       |                |              | Contact Pin                        |         | R....83  | 57.11.3472 |           | 4.7 kOhm    | 1%, 0.25W, MF               |        |
| C.....11   | 59.22.6100   | 10 uF    | -20X           | 25 V EL                     | MP....2 | 1.011.235.03   | 3 pcc        |                |              | Push button case 3A                |         | R....84  | 57.11.3182 |           | 1.8 kOhm    | 1%, 0.25W, MF               |        |
| C.....12   | 59.34.2220   | 22 pF    | 10X            | 50 V CER                    | MP....3 | 1.011.235.04   | 4 pcc        |                |              | Push button case 4A                |         | R....85  | 57.11.3151 |           | 150 Ohm     | 1%, 0.25W, MF               |        |
| C.....13   | 59.06.0105   | 1 uF     | 10X            | 50 V PETP                   | MP....4 | 1.011.235.05   | 2 pcc        |                |              | Push button case 5A                |         | R....86  | 57.11.3202 |           | 2 kOhm      | 1%, 0.25W, MF               |        |
| C.....15   | 59.06.0683   | 68 nF    | 10X            | 50 V PETP                   | MP....5 | 1.011.235.23   | 3 pcc        |                |              | Conductive rubber 3A               |         | R....87  | 57.11.3751 |           | 750 Ohm     | 1%, 0.25W, MF               |        |
| C.....21   | 59.22.6100   | 10 uF    | -20X           | 25 V EL                     | MP....6 | 1.011.235.24   | 4 pcc        |                |              | Conductive rubber 4A               |         | R....88  | 57.11.3153 |           | 15 kOhm     | 1%, 0.25W, MF               |        |
| C.....22   | 59.34.2220   | 22 pF    | 10X            | 50 V CER                    | MP....7 | 1.011.235.25   | 2 pcc        |                |              | Conductive rubber 5A               |         | R....89  | 57.11.3332 |           | 3.3 kOhm    | 1%, 0.25W, MF               |        |
| C.....23   | 59.06.0105   | 1 uF     | 10X            | 50 V PETP                   | MP....8 | 1.011.235.29   | 42 pcc       |                |              | Bolt                               |         | R....90  | 58.01.8503 |           | 50 kOhm     | 10%, 0.5 W, PCerm           |        |
| C.....25   | 59.06.0683   | 68 nF    | 10X            | 50 V PETP                   | MP....9 | 1.011.235.30   | 37 pcc       |                |              | Push button 14x5                   |         | R....91  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| C.....26   | 59.45.4101   | 100 pF   | 10X            | 50 V CER                    | MP...10 | 1.011.235.31   | 6 pcc        |                |              | Dummy calotte                      |         | R....92  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| C.....27   |              |          | not used       |                             | MP...11 | 1.011.235.32   | 9 pcc        |                |              | Calotte red                        |         | R....93  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| C.....28   | 59.45.4101   | 100 pF   | 10X            | 50 V CER                    | MP...12 | 1.011.235.33   | 25 pcc       |                |              | Calotte yel                        |         | R....94  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| C.....29   |              |          | not used       |                             | MP...13 | 1.011.235.34   | 2 pcc        |                |              | Calotte grn                        |         | R...101  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| C....30  | 59.45.4101   | 100 pF   | 10X            | 50 V CER                    | MP...14 | 1.727.360.02   | 1 pcc        |                |              | Push button case with Shuttle      |         | R...102  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| C....31  | 59.45.4101   | 100 pF   | 10X            | 50 V CER                    | MP...15 | 1.727.360.03   | 1 pcc        |                |              | Conductive rubber with Shuttle     |         | R...103  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| D....1   | 50.04.0512   | 1M5818   | 30 V           | Schottky                    | MP...16 | 1.727.360.04   | 5 pcc        |                |              | Push button 19x14                  |         | R...105  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| D....11  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...17 | 1.727.360.05   | 1 pcc        |                |              | Push button Adj.                   |         | R...106  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| D....12  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...18 | 1.727.762.10   | 1 pcc        |                |              | No Label                           |         | R...107  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| D....13  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...19 | 1.727.660.12   | 1 pcc        |                |              | Command Panel PCB                  |         | R...108  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| D....14  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...20 | 53.03.0221   | 42 pcc       |                |              | 2-pole LED Socket                  |         | R...109  | 57.11.3391 |           | 390 Ohm     | 1%, 0.25W, MF               |        |
| D....21  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...21 | 1.727.362.93   | 2 pcc        |                |              | L-LSI Command Panel Board          |         | R...110  | 57.11.3102 |           | 1 kOhm      | 1%, 0.25W, MF               |        |
| D....22  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...22 | 21.53.0354   | 2 pcc        |                |              | Hexagon socket head cap screw M3x6 |         | R...111  | 57.11.3102 |           | 1 kOhm      | 1%, 0.25W, MF               |        |
| D....23  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...23 | 23.01.2032   | 2 pcc        |                |              | Washer                             |         | S....6   | 55.15.0130 |           |             | Push button Switch          | ITT    |
| D....24  | 50.04.0125   | 1M4448   | 50 V           | SI                          | MP...24 | 24.16.1030   | 2 pcc        |                |              | Fin washer                         |         | W....41  |            |           |             | not used                    |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2VU TC PL 1.727.762.82 PAGE 1 |              |          |                |                             |         | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2VU TC PL 1.727.762.82 PAGE 4 |              |                |              |                                    |         | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2VU TC PL 1.727.762.82 PAGE 7 |            |           |             |                             |        |
| IND.   | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF.  | IND.   | POS.NO.      | PART NO.       | VALUE        | SPECIFICATIONS / EQUIVALENT        | MANUF.  | IND.   | POS.NO.    | PART NO.  | VALUE       | SPECIFICATIONS / EQUIVALENT | MANUF. |
| D....24  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | MP...25  | 43.01.0108   | 1 pcc          |              | EGE Warning label                  |         | W....42  |            |           |             | not used                    |        |
| D....30  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | MP...26  | 1.727.360.07 | 1 pcc          |              | Push button label , PLAY           |         | W....43  |            |           |             | not used                    |        |
| D....31  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | MP...27  | 1.727.360.08 | 1 pcc          |              | Push button label , STOP           |         | W....46  | 64.01.0106 |           |             | Wire Bridge                 |        |
| D....32  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | MP...28  | 1.727.360.09 | 1 pcc          |              | Push button label , RECORD         |         | W...141  | 64.01.0106 |           |             | Wire Bridge                 |        |
| D....33  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | MP...29  | 1.727.360.19 | 2 pcc          |              | Push button labels, FORWARD,REWIND |         | W...142  | 64.01.0106 |           |             | Wire Bridge                 |        |
| D....34  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         |  |              |                |              |                                    |         | W...143  | 64.01.0106 |           |             | Wire Bridge                 |        |
| D....35  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | P....1   | 54.02.0320   |                |              | Plug 2.8A0.8                       | ANP     | XB....1  | 53.04.0107 |           |             | Lamp holder                 |        |
| D....36  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | P....2   | 54.02.0320   |                |              | Plug 2.8A0.8                       | ANP     | XB....2  | 53.04.0107 |           |             | Lamp holder                 |        |
| D....37  | 50.04.0125   | 1M4448   | 50 V           | SI                          |         | P....3   | 54.02.0320   |                |              | Plug 2.8A0.8                       | ANP     | XB....3  | 53.04.0107 |           |             | Lamp holder                 |        |
| DL....7  | 50.04.2501   | MV5452   | LED grn D=5 mm | GI                          | P....4  | 54.02.0320   |              |                | Plug 2.8A0.8 | ANP                                | XB....4 | 53.04.0107   |            |           | Lamp holder |                             |        |
| DL....8  | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          | P....5  | 54.02.0320   |              |                | Plug 2.8A0.8 | ANP                                | XIC...1 | 53.03.0168   | 16-Pole    | IC Socket |             |                             |        |
| DL....9  | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          | P....6  | 54.02.0320   |              |                | Plug 2.8A0.8 | ANP                                | XIC...2 | 53.03.0168   | 16-Pole    | IC Socket |             |                             |        |
| DL....10   | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          | Q....1  | 50.03.0436   | BC237B       | BC547B, BC550B | NPN          |                                    | XIC...3 | 53.03.0166   | 8-Pole     | IC Socket |             |                             |        |
| DL....11   | 50.04.2500   | MV5352   | LED yel D=5 mm | GI                          | Q....2  | 50.0   |              |                |              |                                    |         |  |            |           |             |                             |        |

## COMMAND PANEL BOARD 2/2 TC (2CH) 1.727.763.82

| IND.      | POS.NO.      | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.      | POS.NO.    | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|--------------|----------|----------|-----------------------------|--------|-----------|------------|----------|--------------------|-----------------------------|--------|
| A.....1   | 1.727.370.00 |          |          | Display Board               |        | R.....4   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| A.....2   | 1.727.180.00 |          |          | Shuttle Control             |        | R.....5   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....1   | 59.06.0683   | 68 nF    | 10X      | 50 V PETP                   |        | R.....6   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....2   | 59.22.3221   | 220 uF   | -20%     | 10 V EL                     |        | R.....7   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....3   | 59.22.3221   | 220 uF   | -20%     | 10 V EL                     |        | R.....8   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....4   | 59.22.3102   | 1000 uF  | -20%     | 10 V EL                     |        | R.....9   | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....15  | 59.06.0683   | 68 nF    | 10X      | 50 V PETP                   |        | R.....10  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....25  | 59.06.0683   | 68 nF    | 10X      | 50 V PETP                   |        | R.....11  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....26  | 59.45.4101   | 100 pF   | 10X      | 50 V CER                    |        | R.....15  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C.....27  |              |          | not used |                             |        | R.....21  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....28  | 59.45.4101   | 100 pF   | 10X      | 50 V CER                    |        | R.....22  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....29  |              |          | not used |                             |        | R.....55  | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| C.....30  | 59.45.4101   | 100 pF   | 10X      | 50 V CER                    |        | R.....61  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| C.....31  | 59.45.4101   | 100 pF   | 10X      | 50 V CER                    |        | R.....101 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....1   | 50.04.0512   | 1N5818   |          | 30 V Schottky               |        | R.....102 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....30  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | R.....103 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....31  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | R.....105 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....32  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | R.....106 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....33  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | R.....108 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF      |                             |        |
| D.....34  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | R.....110 | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| D.....35  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | R.....111 | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF      |                             |        |
| D.....36  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | S.....6   | 55.15.0130 |          | Push button Switch | ITT                         |        |
| D.....37  | 50.04.0125   | 1N4448   |          | 50 V SI                     |        | W.....41  |            |          | not used           |                             |        |
| DL.....7  | 50.04.2501   | MV5452   |          | LED grn D=5 mm              | GI     | W.....42  |            |          | not used           |                             |        |
| DL.....8  | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | W.....43  |            |          | not used           |                             |        |
| DL.....9  | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | W.....46  | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....10 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | W.....141 | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....11 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | W.....142 | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....12 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | W.....143 | 64.01.0106 |          | Wire Bridge        |                             |        |
| DL.....13 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | XIC.....1 | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL.....14 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | XIC.....2 | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL.....15 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | XIC.....6 | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL.....16 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     | XIC.....7 | 53.03.0168 | 16-Pole  | IC Socket          |                             |        |
| DL.....17 | 50.04.2500   | MV5352   |          | LED yel D=5 mm              | GI     |           |            |          |                    |                             |        |

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| IND.      | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.       | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|------------|----------|-------|-----------------------------|--------|------------|------------|----------|-----------|-----------------------------|--------|
| DL.....18 | 50.04.2115 | MV5752   |       | LED red D=5 mm              | GI     | XIC.....11 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| DL.....21 | 50.04.2115 | MV5752   |       | LED red D=5 mm              | GI     | XIC.....12 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| DL.....22 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     | XIC.....13 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| DL.....23 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....24 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....31 | 50.04.2115 | MV5752   |       | LED red D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....32 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....33 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....34 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....41 | 50.04.2115 | MV5752   |       | LED red D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....42 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....43 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....45 | 50.04.2115 | MV5752   |       | LED red D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....46 | 50.04.2500 | MV5352   |       | LED yel D=5 mm              | GI     |            |            |          |           |                             |        |
| DL.....48 | 50.04.2501 | MV5452   |       | LED grn D=5 mm              | GI     |            |            |          |           |                             |        |
| IC.....1  | 50.17.1595 | 74HC595  |       | 8-Bit Shift Register        | TI     |            |            |          |           |                             |        |
| IC.....2  | 50.17.1595 | 74HC595  |       | 8-Bit Shift Register        | TI     |            |            |          |           |                             |        |
| IC.....6  | 50.17.1595 | 74HC595  |       | 8-Bit Shift Register        | TI     |            |            |          |           |                             |        |
| IC.....7  | 50.17.1595 | 74HC595  |       | 8-Bit Shift Register        | TI     |            |            |          |           |                             |        |
| IC.....11 | 50.17.1595 | 74HC595  |       | 8-Bit Shift Register        | TI     |            |            |          |           |                             |        |
| IC.....12 | 50.06.0596 | 74LS596  |       | 8-Bit Shift Register O.C.   | TI     |            |            |          |           |                             |        |
| IC.....13 | 50.17.1595 | 74HC595  |       | 8-Bit Shift Register        | TI     |            |            |          |           |                             |        |
| J.....1   | 54.01.0287 | 3-Pole   |       | CIS Socket Strip            | AMP    |            |            |          |           |                             |        |
| J.....2   | 54.01.0288 | 5-Pole   |       | CIS Socket Strip            | AMP    |            |            |          |           |                             |        |
| J.....3   | 54.01.0237 | 20-Pole  |       | CIS Socket Strip            | AMP    |            |            |          |           |                             |        |
| J.....4   | 54.01.0237 | 20-Pole  |       | CIS Socket Strip            | AMP    |            |            |          |           |                             |        |
| JP.....6  | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |
| JP.....10 | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |
| JP.....11 | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |
| JP.....12 | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |
| JP.....13 | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |
| JP.....14 | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |
| JP.....15 | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |
| JP.....16 | 54.01.0021 |          |       | Bridge                      |        |            |            |          |           |                             |        |

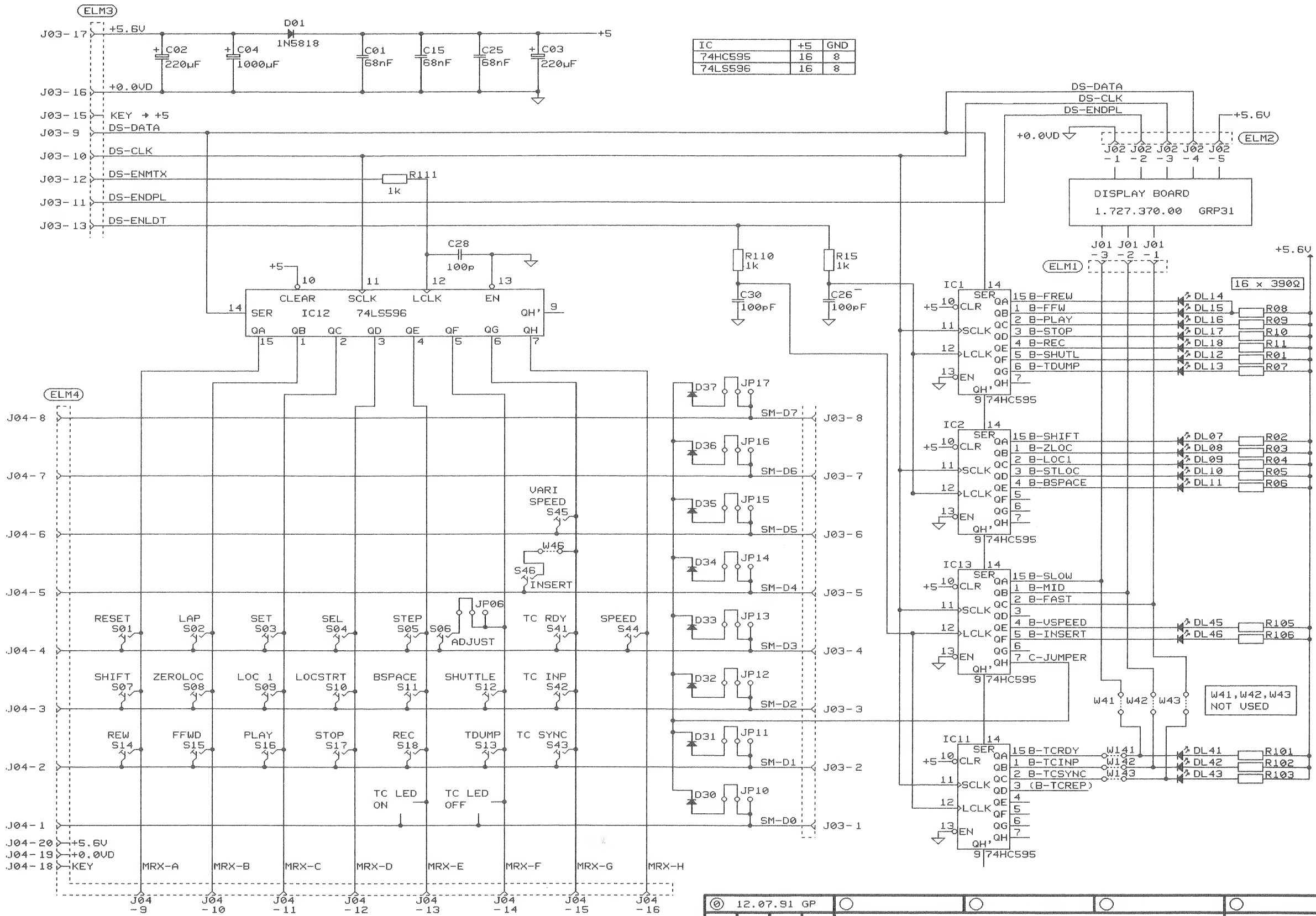
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| IND.      | POS.NO.      | PART NO. | VALUE         | SPECIFICATIONS / EQUIVALENT         | MANUF. |
|-----------|--------------|----------|---------------|-------------------------------------|--------|
| JP.....17 | 54.01.0021   |          |               | Bridge                              |        |
| JP.....46 |              |          |               | not used                            |        |
| JP.....48 | 54.01.0021   |          |               | Bridge                              |        |
| MP.....1  | 54.01.0020   |          |               | Contact Pin                         |        |
| MP.....2  | 1.011.235.03 | 3 pcs    |               | Push button case 3a                 |        |
| MP.....3  | 1.011.235.04 | 2 pcs    |               | Push button case 4a                 |        |
| MP.....4  | 1.011.235.05 | 2 pcs    |               | Push button case 5a                 |        |
| MP.....5  | 1.011.235.23 | 3 pcs    |               | Conductive rubber 3a                |        |
| MP.....6  | 1.011.235.24 | 2 pcs    |               | Conductive rubber 4a                |        |
| MP.....7  | 1.011.235.25 | 2 pcs    |               | Conductive rubber 5a                |        |
| MP.....8  | 1.011.235.29 | 32 pcs   |               | Bolt                                |        |
| MP.....9  | 1.011.235.30 | 27 pcs   |               | Push button 14x5                    |        |
| MP.....10 | 1.011.235.31 | 6 pcs    |               | Dummy calotte                       |        |
| MP.....11 | 1.011.235.32 | 5 pcs    |               | Calotte red                         |        |
| MP.....12 | 1.011.235.33 | 19 pcs   |               | Calotte yel                         |        |
| MP.....13 | 1.011.235.34 | 2 pcs    |               | Calotte grn                         |        |
| MP.....14 | 1.727.360.02 | 1 pc     |               | Push button case with Shuttle       |        |
| MP.....15 | 1.727.360.03 | 1 pc     |               | Conductive rubber with Shuttle      |        |
| MP.....16 | 1.727.360.04 | 5 pcs    |               | Push button 19x14                   |        |
| MP.....17 | 1.727.360.05 | 1 pc     |               | Push button Adj.                    |        |
| MP.....18 | 1.727.763.10 | 1 pc     |               | No. Label                           |        |
| MP.....19 | 1.727.660.12 | 1 pc     |               | Command Panel PCB                   |        |
| MP.....20 | 53.03.0221   | 26 pcs   |               | 2-pole LED Socket                   |        |
| MP.....22 | 21.53.0354   | 2 pcs    |               | Hexagon socket head cap screw M3x6  |        |
| MP.....23 | 23.01.2032   | 2 pcs    |               | Washer                              |        |
| MP.....24 | 24.16.1030   | 1 pc     |               | Fin washer                          |        |
| MP.....25 | 43.01.0108   | 1 pc     |               | RSE Warning label                   |        |
| MP.....26 | 1.727.360.07 | 1 pc     |               | Push button label, PLAY             |        |
| MP.....27 | 1.727.360.08 | 1 pc     |               | Push button label, STOP             |        |
| MP.....28 | 1.727.360.09 | 1 pc     |               | Push button label, RECORD           |        |
| MP.....29 | 1.727.360.13 | 2 pcs    |               | Push button labels, FORWARD, REWIND |        |
| MP.....30 | 1.011.235.35 | 2 pcs    |               | Dummy push button 19x5              |        |
| R.....1   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....2   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |
| R.....3   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                                     |        |

S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD 2/2 TC PL 1.727.763.82 PAGE 3



COMMAND PANEL BOARD TC (4CH) 1.727.766.82



COMMAND PANEL BOARD TC (4CH) 1.727.766.82

| IND.   | POS.NO.      | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|--------------|----------|----------------|-----------------------------|--------|--|------------|----------|-------|-----------------------------|--------|
| A....1   | 1.727.370.00 |          |                | Display Board               |        | S....6   | 55.15.0130 |          |       | Push button Switch          | ITT    |
| A....2   | 1.727.180.00 |          |                | Shuttle Control             |        | W....41  |            |          |       | not used                    |        |
| C....1   | 59.06.0683   | 68 nF    | 10X 50 V       | PETP                        |        | W....42  |            |          |       | not used                    |        |
| C....2   | 59.22.3221   | 220 uF   | -20X 10 V      | EL                          |        | W....43  |            |          |       | not used                    |        |
| C....3   | 59.22.3221   | 220 uF   | -20X 10 V      | EL                          |        | W....46  |            |          |       | not used                    |        |
| C....4   | 59.22.3102   | 1000 uF  | -20X 10 V      | EL                          |        | W...141  | 64.01.0106 |          |       | Wire Bridge                 |        |
| C....25  | 59.06.0683   | 68 nF    | 10X 50 V       | PETP                        |        | W...142  | 64.01.0106 |          |       | Wire Bridge                 |        |
| C....26  | 59.45.4101   | 100 pF   | 10X 50 V       | CER                         |        | W...143  | 64.01.0106 |          |       | Wire Bridge                 |        |
| C....27  |              |          |                | not used                    |        | XIC...1  | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| C....28  | 59.45.4101   | 100 pF   | 10X 50 V       | CER                         |        | XIC...2  | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| C....29  |              |          |                | not used                    |        | XIC...11   | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| C....30  | 59.45.4101   | 100 pF   | 10X 50 V       | CER                         |        | XIC...12   | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| D....1   | 50.04.0512   | 1N5818   | 30 V           | Schottky                    |        | XIC...13   | 53.03.0168 | 16-Pole  |       | IC Socket                   |        |
| D....30  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| D....31  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| D....32  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| D....33  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| D....34  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| D....35  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| D....36  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| D....37  | 50.04.0125   | 1N4448   | 50 V           | SI                          |        |  |            |          |       |                             |        |
| DL....7  | 50.04.2501   | MV5452   | LED grn D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....8  | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....9  | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....10   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....11   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....12   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....13   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....14   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....15   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....16   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....17   | 50.04.2500   | MV5352   | LED yel D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....18   | 50.04.2115   | MV5752   | LED rad D=5 mm |                             | GI     |  |            |          |       |                             |        |
| DL....41   | 50.04.2115   | MV5752   | LED rad D=5 mm |                             | GI     |  |            |          |       |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD (4CH) TC PL 1.727.766.82 PAGE 1 |              |          |                |                             |        | S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD (4CH) TC PL 1.727.766.82 PAGE 4 |            |          |       |                             |        |

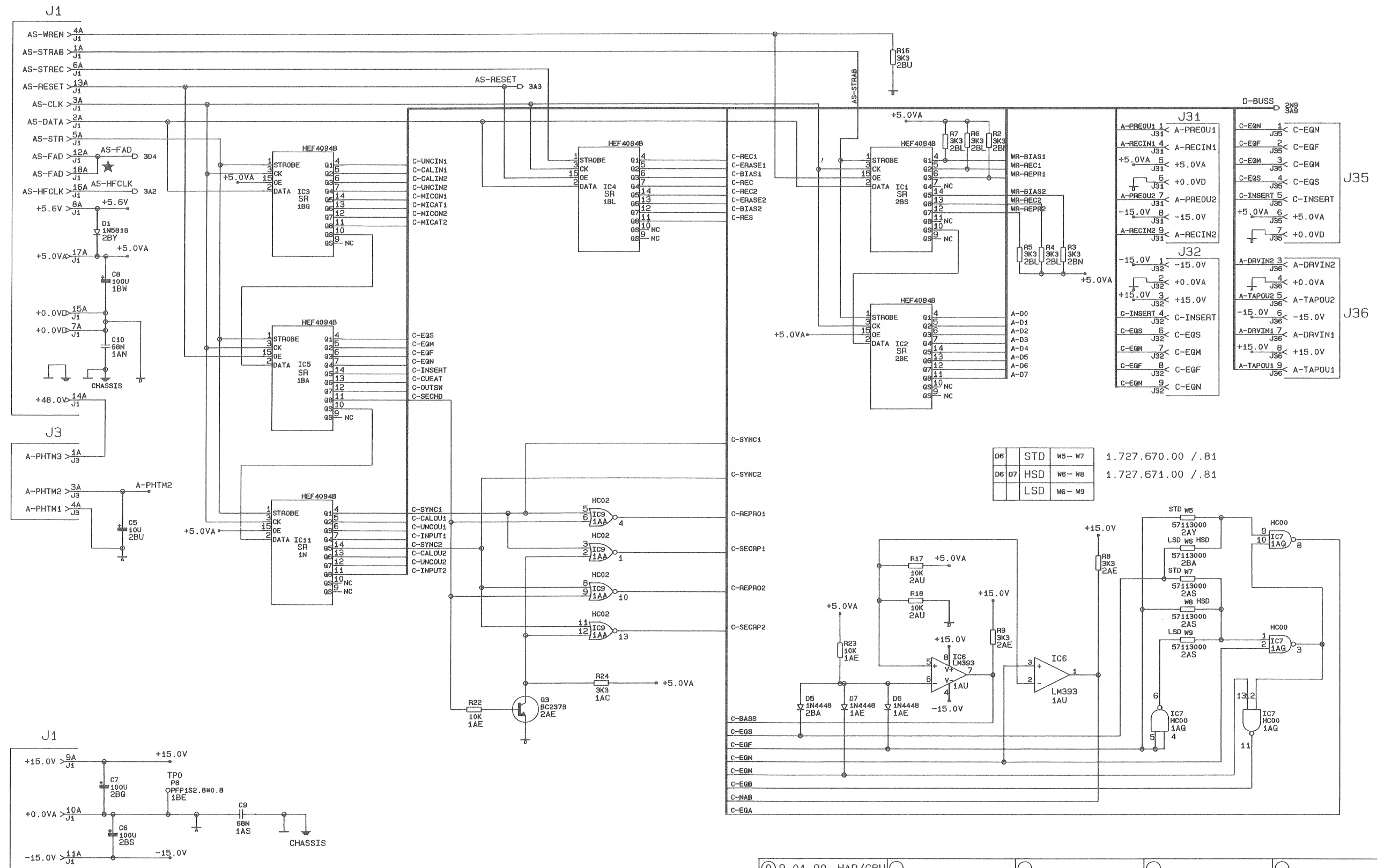
CER=Ceramic, EL=Electrolytic, PETP=Polyester, SI=Silicon,  
MF=Metal Film, PCerm=Pot. Cermet,  
MANUFACTURER: AMP, GI=General Instrument, ITT, Mot=Motorola,  
NS=National Semiconductor, Ph=Philips, Ra=Raytheon,  
TI=Texas Instruments

ORIG 91/07/12

| IND.   | POS.NO.      | PART NO. | VALUE                     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|--------------|----------|---------------------------|-----------------------------|--------|
| DL....42   | 50.04.2500   | MV5352   | LED yel D=5 mm            |                             | GI     |
| DL....43   | 50.04.2500   | MV5352   | LED yel D=5 mm            |                             | GI     |
| DL....45   | 50.04.2115   | MV5752   | LED rad D=5 mm            |                             | GI     |
| DL....46   | 50.04.2501   | MV5452   | LED grn D=5 mm            |                             | GI     |
| IC....1  | 50.17.1595   | 74HC595  | 8-Bit Shift Register      |                             | TI     |
| IC....2  | 50.17.1595   | 74HC595  | 8-Bit Shift Register      |                             | TI     |
| IC....11   | 50.17.1595   | 74HC595  | 8-Bit Shift Register      |                             | TI     |
| IC....12   | 50.06.0596   | 74LS596  | 8-Bit Shift Register O.C. |                             | TI     |
| IC....13   | 50.17.1595   | 74HC595  | 8-Bit Shift Register      |                             | TI     |
| J....1   | 54.01.0287   | 3-Pole   | CIS Socket Strip          |                             | AMP    |
| J....2   | 54.01.0288   | 5-Pole   | CIS Socket Strip          |                             | AMP    |
| J....3   | 54.01.0237   | 20-Pole  | CIS Socket Strip          |                             | AMP    |
| J....4   | 54.01.0237   | 20-Pole  | CIS Socket Strip          |                             | AMP    |
| JP....6  | 54.01.0021   |          | Bridge                    |                             |        |
| JP....10   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....11   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....12   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....13   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....14   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....15   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....16   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....17   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....46   | 54.01.0021   |          | Bridge                    |                             |        |
| JP....48   |              |          | not used                  |                             |        |
| MP....1  | 54.01.0020   | 30 pcs   | Contact Pin               |                             |        |
| MP....2  | 1.011.235.03 | 2 pcs    | Push button case 3A       |                             |        |
| MP....4  | 1.011.235.05 | 2 pcs    | Push button case 5A       |                             |        |
| MP....5  | 1.011.235.23 | 2 pcs    | Conductive rubber 3A      |                             |        |
| MP....7  | 1.011.235.25 | 2 pcs    | Conductive rubber 5A      |                             |        |
| MP....8  | 1.011.235.29 | 23 pcs   | Bolt                      |                             |        |
| MP....9  | 1.011.235.30 | 18 pcs   | Push button 14x5          |                             |        |
| MP....10   | 1.011.235.31 | 6 pcs    | Dummy calotte             |                             |        |
| MP....11   | 1.011.235.32 | 3 pcs    | Calotte rad               |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD (4CH) TC PL 1.727.766.82 PAGE 2 |              |          |                           |                             |        |

| IND.   | POS.NO.      | PART NO. | VALUE                              | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|--------------|----------|------------------------------------|-----------------------------|--------|
| MP....12   | 1.011.235.33 | 12 pcs   | Calotte yel                        |                             |        |
| MP....13   | 1.011.235.34 | 2 pcs    | Calotte grn                        |                             |        |
| MP....14   | 1.727.360.02 | 1 pcs    | Push button case with Shuttle      |                             |        |
| MP....15   | 1.727.360.03 | 1 pcs    | Conductive rubber with Shuttle     |                             |        |
| MP....16   | 1.727.360.04 | 5 pcs    | Push button 19x14                  |                             |        |
| MP....17   | 1.727.360.05 | 1 pcs    | Push button Adj.                   |                             |        |
| MP....18   | 1.727.766.10 | 1 pcs    | No. Label                          |                             |        |
| MP....19   | 1.727.660.12 | 1 pcs    | Command Panel PCB                  |                             |        |
| MP....20   | 53.03.0221   | 17 pcs   | 2-pole LED Socket                  |                             |        |
| MP....22   | 21.53.0354   | 2 pcs    | Hexagon socket head cap screw M3x6 |                             |        |
| MP....23   | 23.01.2032   | 2 pcs    | Washer                             |                             |        |
| MP....24   | 24.16.1030   | 2 pcs    | Fin washer                         |                             |        |
| MP....25   | 43.01.0108   | 1 pcs    | ESE Warning label                  |                             |        |
| MP....26   | 1.727.360.07 | 1 pcs    | Push button label, PLAY            |                             |        |
| MP....27   | 1.727.360.08 | 1 pcs    | Push button label, STOP            |                             |        |
| MP....28   | 1.727.360.09 | 1 pcs    | Push button label, RECORD          |                             |        |
| MP....29   | 1.727.360.19 | 2 pcs    | Push button labels, FORWARD,REWIND |                             |        |
| R....1   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....2   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....3   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....4   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....5   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....6   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....7   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....8   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....9   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....10  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....11  | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....15  | 57.11.3102   | 1 kOhm   | 1X, 0.25W, MF                      |                             |        |
| R....101   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....102   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....103   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....105   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....106   | 57.11.3391   | 390 Ohm  | 1X, 0.25W, MF                      |                             |        |
| R....110   | 57.11.3102   | 1 kOhm   | 1X, 0.25W, MF                      |                             |        |
| R....111   | 57.11.3102   | 1 kOhm   | 1X, 0.25W, MF                      |                             |        |
| S T U D E R (00) 91/07/12 GP COMMAND PANEL BOARD (4CH) TC PL 1.727.766.82 PAGE 3 |              |          |                                    |                             |        |

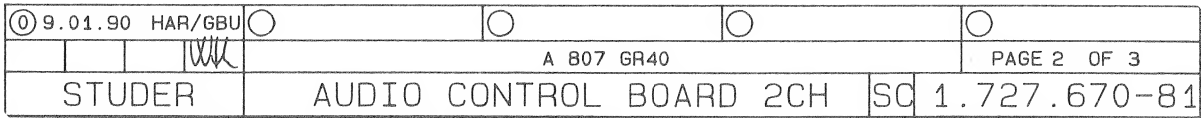
**AUDIO CONTROL BOARD (2CH) 1.727.670.00 / 1.727.671.00 (HS)**  
**-AUDIO CONTROL BOARD (2CH) 1.727.670.81 / 1.727.671.81 (HS)**



★ J1.18A NOT USED FOR 1.727.670.00 / 671.00

|           |                         |  |  |                 |             |
|-----------|-------------------------|--|--|-----------------|-------------|
| ⑨ 9.01.90 | HAR/GBU                 |  |  |                 |             |
|           |                         |  |  | A 807 GR40      | PAGE 1 OF 3 |
| STUDER    | AUDIO CONTROL BOARD 2CH |  |  | SC 1.727.670-81 |             |

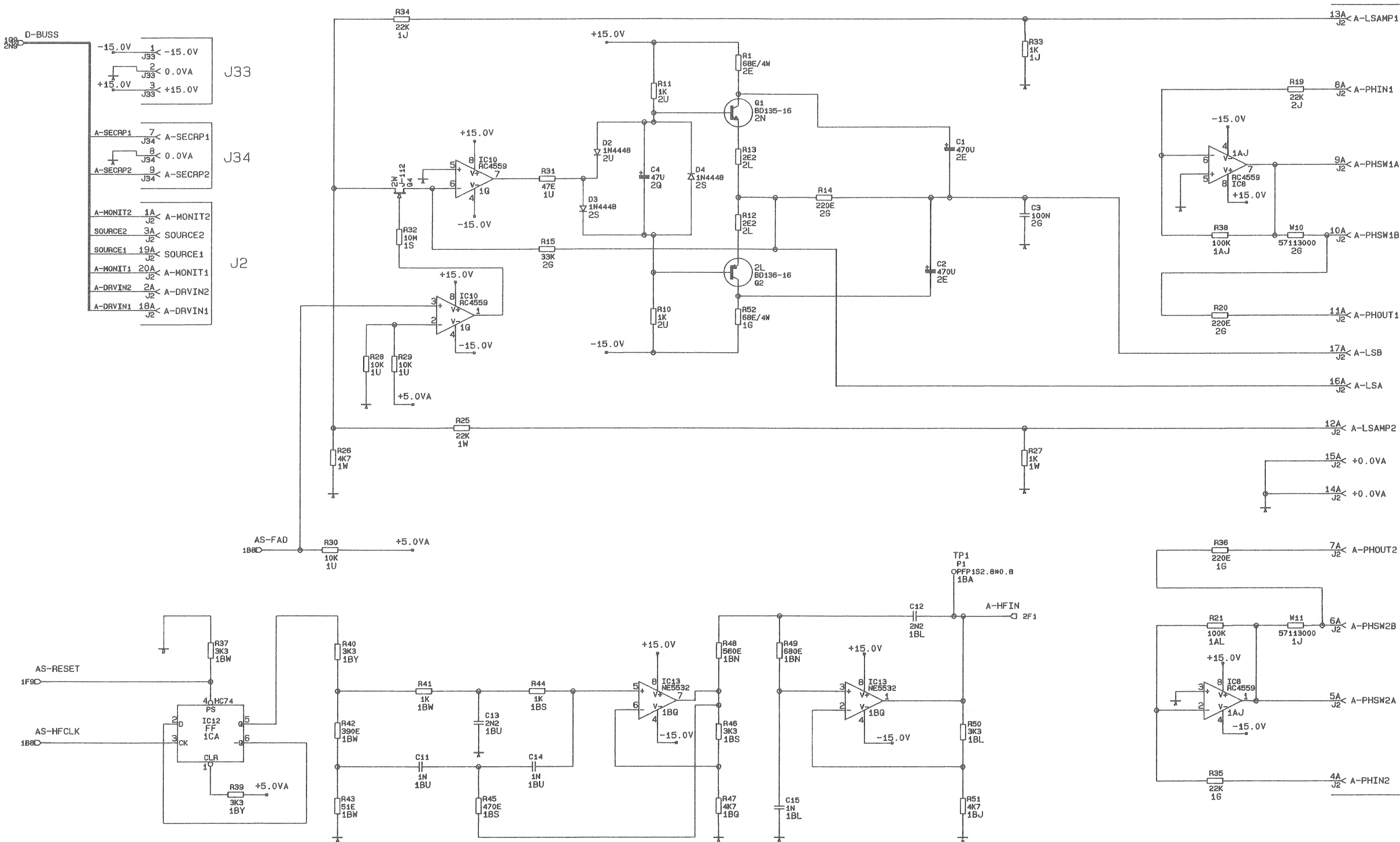
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STUDER A807 MKII

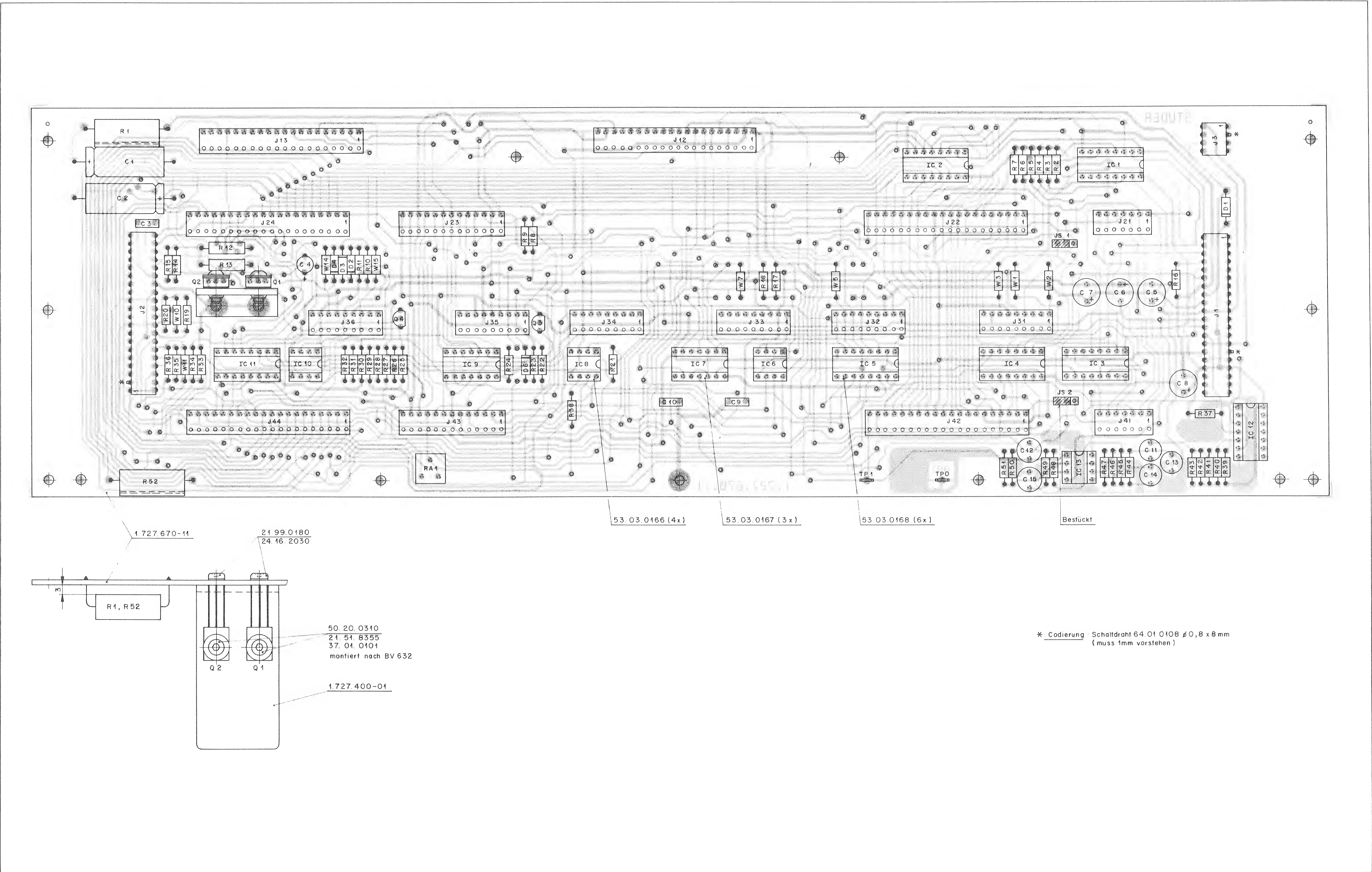
AUDIO CONTROL BOARD (2CH) 1.727.670.00 / 1.727.671.00 (HS)

-AUDIO CONTROL BOARD (2CH) 1.727.670.81 / 1.727.671.81 (HS)



|                   |            |                 |        |      |
|-------------------|------------|-----------------|--------|------|
| © 9.01.90 HAR/GBU |            |                 |        |      |
| STUDER            | A 807 GR40 | SC 1.727.670-81 | PAGE 3 | OF 3 |

AUDIO CONTROL BOARD (2CH) 1.727.670.81 / 1.727.671.81





AUDIO CONTROL BOARD (2CH) 1.727.670.81

| IND.      | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|------------|----------|----------|-----------------------------|--------|----------|------------|----------|----------|-----------------------------|--------|
| C.....1   | 59.25.3471 |          | 470 uF   | -20% 16 V EL                |        | R.....36 | 57.11.3221 |          | 220 Ohm  | 2%, 0.25W, MF               |        |
| C.....2   | 59.25.3471 |          | 470 uF   | -20% 16 V EL                |        | R.....37 | 57.11.3332 |          | 3.3 kOhm | 2%, 0.25W, MF               |        |
| C.....3   | 59.06.0104 |          | 0.1 uF   | 10% 63 V PETP               |        | R.....38 | 57.11.3104 |          | 100 kOhm | 2%, 0.25W, MF               |        |
| C.....4   | 59.22.3470 |          | 47 uF    | -20% 10 V EL                |        | R.....39 | 57.11.3332 |          | 3.3 kOhm | 2%, 0.25W, MF               |        |
| C.....5   | 59.22.0100 |          | 10 uF    | -20% 63 V EL                |        | R.....40 | 57.11.3332 |          | 3.3 kOhm | 2%, 0.25W, MF               |        |
| C.....6   | 59.22.5101 |          | 100 uF   | -20% 25 V EL                |        | R.....41 | 57.11.3102 |          | 1 kOhm   | 2%, 0.25W, MF               |        |
| C.....7   | 59.22.5101 |          | 100 uF   | -20% 25 V EL                |        | R.....42 | 57.11.3391 |          | 390 Ohm  | 2%, 0.25W, MF               |        |
| C.....8   | 59.22.5101 |          | 100 uF   | -20% 25 V EL                |        | R.....43 | 57.11.3510 |          | 51 Ohm   | 1%, 0.25W, MF               |        |
| C.....9   | 59.06.0683 |          | 68 nF    | 10% 63 V PETP               |        | R.....44 | 57.11.3102 |          | 1 kOhm   | 2%, 0.25W, MF               |        |
| C.....10  | 59.06.0683 |          | 68 nF    | 10% 63 V PETP               |        | R.....45 | 57.11.3471 |          | 470 Ohm  | 2%, 0.25W, MF               |        |
| C.....11  | 59.05.1102 |          | 1 nF     | 1% 160 V PP                 |        | R.....46 | 57.11.3332 |          | 3.3 kOhm | 2%, 0.25W, MF               |        |
| C.....12  | 59.05.1222 |          | 2.2 nF   | 1% 160 V PP                 |        | R.....47 | 57.11.3472 |          | 4.7 kOhm | 2%, 0.25W, MF               |        |
| C.....13  | 59.05.1222 |          | 2.2 nF   | 1% 160 V PP                 |        | R.....48 | 57.11.3561 |          | 560 Ohm  | 2%, 0.25W, MF               |        |
| C.....14  | 59.05.1102 |          | 1 nF     | 1% 160 V PP                 |        | R.....49 | 57.11.3661 |          | 680 Ohm  | 2%, 0.25W, MF               |        |
| C.....15  | 59.05.1102 |          | 1 nF     | 1% 160 V PP                 |        | R.....50 | 57.11.3332 |          | 3.3 kOhm | 2%, 0.25W, MF               |        |
| D.....1   | 50.04.0512 | 1N5819   |          | 30V                         | Mot    | R.....51 | 57.11.3472 |          | 4.7 kOhm | 2%, 0.25W, MF               |        |
| D.....2   | 50.04.0125 | 1N4448   |          | 50V                         |        | R.....52 | 57.56.5680 |          | 68 Ohm   | 2%, 4 W, DR                 |        |
| D.....3   | 50.04.0125 | 1N4448   |          | 50V                         |        | RA.....1 | 58.01.8202 |          | 2 kOhm   | Potmeter PM5                |        |
| D.....4   | 50.04.0125 | 1N4448   |          | 50V                         |        | TP.....0 | 54.02.0320 |          |          | PLUG 2.8x0.8                |        |
| D.....5   |            |          | not used |                             |        | TP.....1 | 54.02.0320 |          |          | PLUG 2.8x0.8                |        |
| D.....6   | 50.04.0125 | 1N4448   |          | 50V                         |        | W.....1  | 57.11.3000 |          |          | Wire Bridge                 |        |
| D.....7   |            |          | not used |                             |        | W.....2  | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....1  | 50.07.0018 | MC14094  |          | CMOS                        | Mot    | W.....3  | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....2  | 50.07.0018 | MC14094  |          | CMOS                        | Mot    | W.....5  | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....3  | 50.07.0018 | MC14094  |          | CMOS                        | Mot    | W.....6  |            |          |          | not used                    |        |
| IC.....4  | 50.07.0018 | MC14094  |          | CMOS                        | Mot    | W.....7  | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....5  | 50.07.0018 | MC14094  |          | CMOS                        | Mot    | W.....8  |            |          |          | not used                    |        |
| IC.....6  | 50.05.0283 | LM393    |          | Dual Comparator             |        | W.....9  |            |          |          | not used                    |        |
| IC.....7  | 50.17.1000 | 74HC00   |          | HCMOS                       |        | W.....10 | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....8  | 50.09.0107 | RC4559   |          | Dual Op. Amp.               |        | W.....11 | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....9  | 50.17.1002 | 74HC02   |          | HCMOS                       |        | W.....14 | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....10 | 50.09.0107 | RC4559   |          | Dual Op. Amp.               |        | W.....15 | 57.11.3000 |          |          | Wire Bridge                 |        |
| IC.....11 | 50.07.0018 | MC14094  |          | CMOS                        | Mot    | XIC...1  | 53.03.0168 |          | 16 pol   | IC Socket                   |        |
| IC.....12 | 50.17.1074 | 74HC74   |          | HCMOS                       |        |          |            |          |          |                             |        |
| IC.....13 | 50.09.0105 | NE5532   |          | Dual Op. Amp.               |        |          |            |          |          |                             |        |

S T U D E R (00) 90/01/22 Wth AUDIO CONTROL BOARD PL 1.727.670.81 PAGE 1 S T U D E R (00) 90/01/22 Wth AUDIO CONTROL BOARD PL 1.727.670.81 PAGE 4

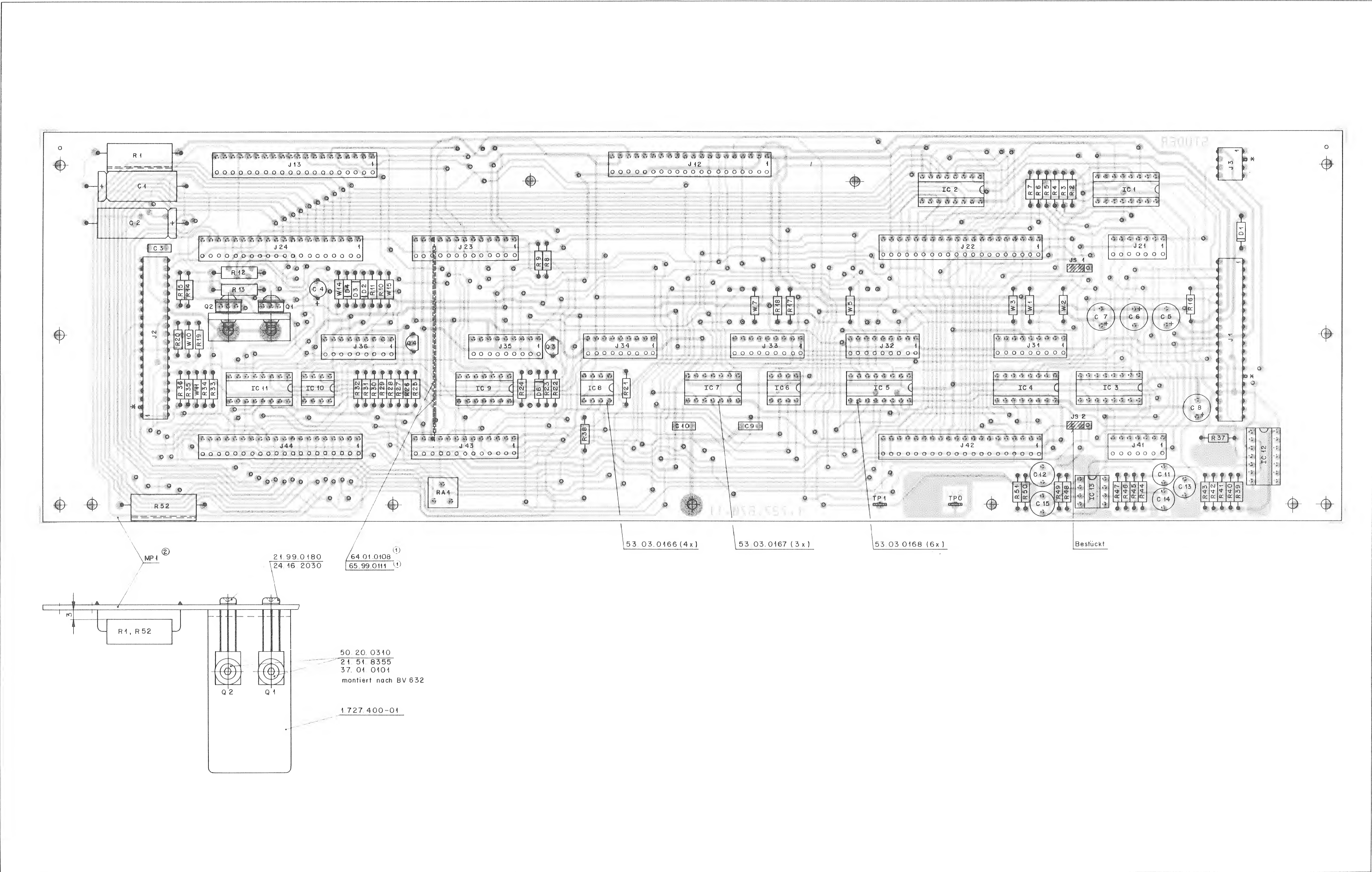
| IND.    | POS.NO.      | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|--------------|----------|-------|-----------------------------|--------|----------|------------|----------|-----------|-----------------------------|--------|
| J....1  | 54.01.0248   | 20-POLE  |       | CIS Socket Strip            | AMP    | XIC...2  | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| J....2  | 54.01.0248   | 20-POLE  |       | CIS Socket Strip            | AMP    | XIC...3  | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| J....3  | 54.01.0304   | 4-POLE   |       | CIS Socket Strip            | AMP    | XIC...4  | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| J....11 |              |          |       | not used                    |        | XIC...5  | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| J....12 | 54.01.0226   | 20-POLE  |       | CIS Socket Strip            | AMP    | XIC...6  | 53.03.0166 | 8 pol    | IC Socket |                             |        |
| J....13 | 54.01.0226   | 20-POLE  |       | CIS Socket Strip            | AMP    | XIC...7  | 53.03.0167 | 14 pol   | IC Socket |                             |        |
| J....21 | 54.01.0218   | 7-POLE   |       | CIS Socket Strip            | AMP    | XIC...8  | 53.03.0166 | 8 pol    | IC Socket |                             |        |
| J....22 | 54.01.0226   | 20-POLE  |       | CIS Socket Strip            | AMP    | XIC...9  | 53.03.0167 | 14 pol   | IC Socket |                             |        |
| J....23 | 54.01.0226   | 13-POLE  |       | CIS Socket Strip            | AMP    | XIC...10 | 53.03.0166 | 8 pol    | IC Socket |                             |        |
| J....24 | 54.01.0226   | 20-POLE  |       | CIS Socket Strip            | AMP    | XIC...11 | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| J....31 | 54.01.0217   | 9-POLE   |       | CIS Socket Strip            | AMP    | XIC...12 | 53.03.0167 | 14 pol   | IC Socket |                             |        |
| J....32 | 54.01.0217   | 9-POLE   |       | CIS Socket Strip            | AMP    | XIC...13 | 53.03.0166 | 8 pol    | IC Socket |                             |        |
| J....33 | 54.01.0217   | 9-POLE   |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J....34 | 54.01.0217   | 9-POLE   |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J....35 | 54.01.0217   | 9-POLE   |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J....36 | 54.01.0217   | 9-POLE   |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J....41 | 54.01.0218   | 7-POLE   |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J....42 | 54.01.0226   | 20-POLE  |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J....43 | 54.01.0226   | 13-POLE  |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| J....44 | 54.01.0226   | 20-POLE  |       | CIS Socket Strip            | AMP    |          |            |          |           |                             |        |
| JS....1 | 54.01.0021   |          |       | Bridge                      |        |          |            |          |           |                             |        |
| JS....2 | 54.01.0021   |          |       | Bridge                      |        |          |            |          |           |                             |        |
| MP....1 | 1.727.670.12 | 1 pce    |       | Audio Control PCB           | St     |          |            |          |           |                             |        |
| MP....2 | 1.727.400.01 | 1 pce    |       | Headsink                    | St     |          |            |          |           |                             |        |
| MP....3 | 1.727.670.10 | 1 pce    |       | No. label                   | St     |          |            |          |           |                             |        |
| MP....4 | 21.99.0180   | 2 pce    |       | Screw M3 x 5                |        |          |            |          |           |                             |        |
| MP....5 | 21.53.0355   | 2 pce    |       | Screw M3 x 8                |        |          |            |          |           |                             |        |
| MP....6 | 24.16.2030   | 2 pce    |       | Lock washer                 |        |          |            |          |           |                             |        |
| MP....7 | 37.01.0101   | 4 pce    |       | Lock washer                 | St     |          |            |          |           |                             |        |
| MP....8 | 43.01.0108   | 1 pce    |       | ESE warning label           | St     |          |            |          |           |                             |        |
| MP....9 | 54.01.0020   | 6 pce    |       | Contact pin                 |        |          |            |          |           |                             |        |
| Q....1  | 50.03.0495   | BD135-16 |       | NPN                         |        |          |            |          |           |                             |        |
| Q....2  | 50.03.0510   | BD135-16 |       | NPN                         |        |          |            |          |           |                             |        |
| Q....3  | 50.03.0436   | BC237B   |       | NPN                         |        |          |            |          |           |                             |        |
|         |              |          |       | BC547B, BC550B              |        |          |            |          |           |                             |        |
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|         |              |          |       |                             |        |          |            |          |           |                             |        |

S T U D E R (00) 90/01/22 Wth AUDIO CONTROL BOARD PL 1.727.670.81 PAGE 2 S T U D E R (00) 90/01/22 Wth AUDIO CONTROL BOARD PL 1.727.670.81 PAGE 5

| IND.    | POS.NO.    | PART NO. | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF.  |
|---------|------------|----------|---------------|-----------------------------|---------|
| Q....4  | 50.03.0350 | MPF4392  | J112          | FET                         | Mot,Six |
| R....1  | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR   |                             |         |
| R....2  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....3  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....4  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....5  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....6  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....7  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....8  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....9  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....10 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF |                             |         |
| R....11 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF |                             |         |
| R....12 | 57.13.4229 | 2.2 Ohm  | 2%, 0.5 W, MF |                             |         |
| R....13 | 57.13.4229 | 2.2 Ohm  | 2%, 0.5 W, MF |                             |         |
| R....14 | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF |                             |         |
| R....15 | 57.11.3333 | 33 kOhm  | 2%, 0.25W, MF |                             |         |
| R....16 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....17 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF |                             |         |
| R....18 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF |                             |         |
| R....19 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF |                             |         |
| R....20 | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF |                             |         |
| R....21 | 57.11.3104 | 100 kOhm | 2%, 0.25W, MF |                             |         |
| R....22 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF |                             |         |
| R....23 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF |                             |         |
| R....24 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |         |
| R....25 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF |                             |         |
| R....26 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF |                             |         |
| R....27 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF |                             |         |
| R....28 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF |                             |         |
| R....29 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF |                             |         |
| R....30 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF |                             |         |
| R....31 | 57.11.3470 | 47 Ohm   | 2%, 0.25W, MF |                             |         |
| R....32 | 57.11.3106 | 10 MOhm  | 5%, 0.25W, MF |                             |         |
| R....33 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF |                             |         |
| R....34 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF |                             |         |
| R....35 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF |                             |         |

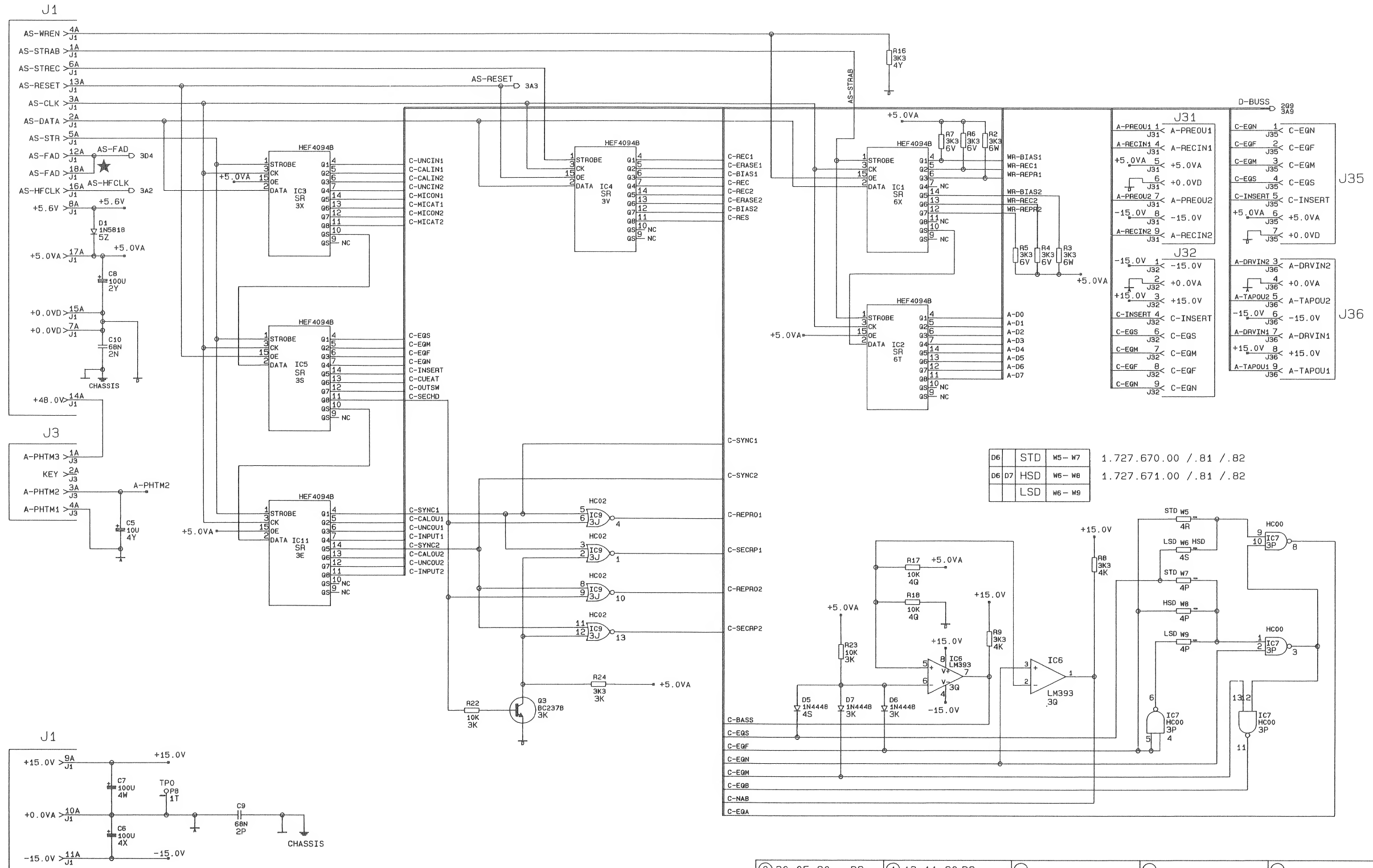
S T U D E R (00) 90/01/22 Wth AUDIO CONTROL BOARD PL 1.727.670.81 PAGE 3

AUDIO CONTROL BOARD (2CH) 1.727.670.00 / 1.727.671.00 (HS)





## AUDIO CONTROL BOARD (2CH) 1.727.670.82 / 1.727.671.82 (HS)



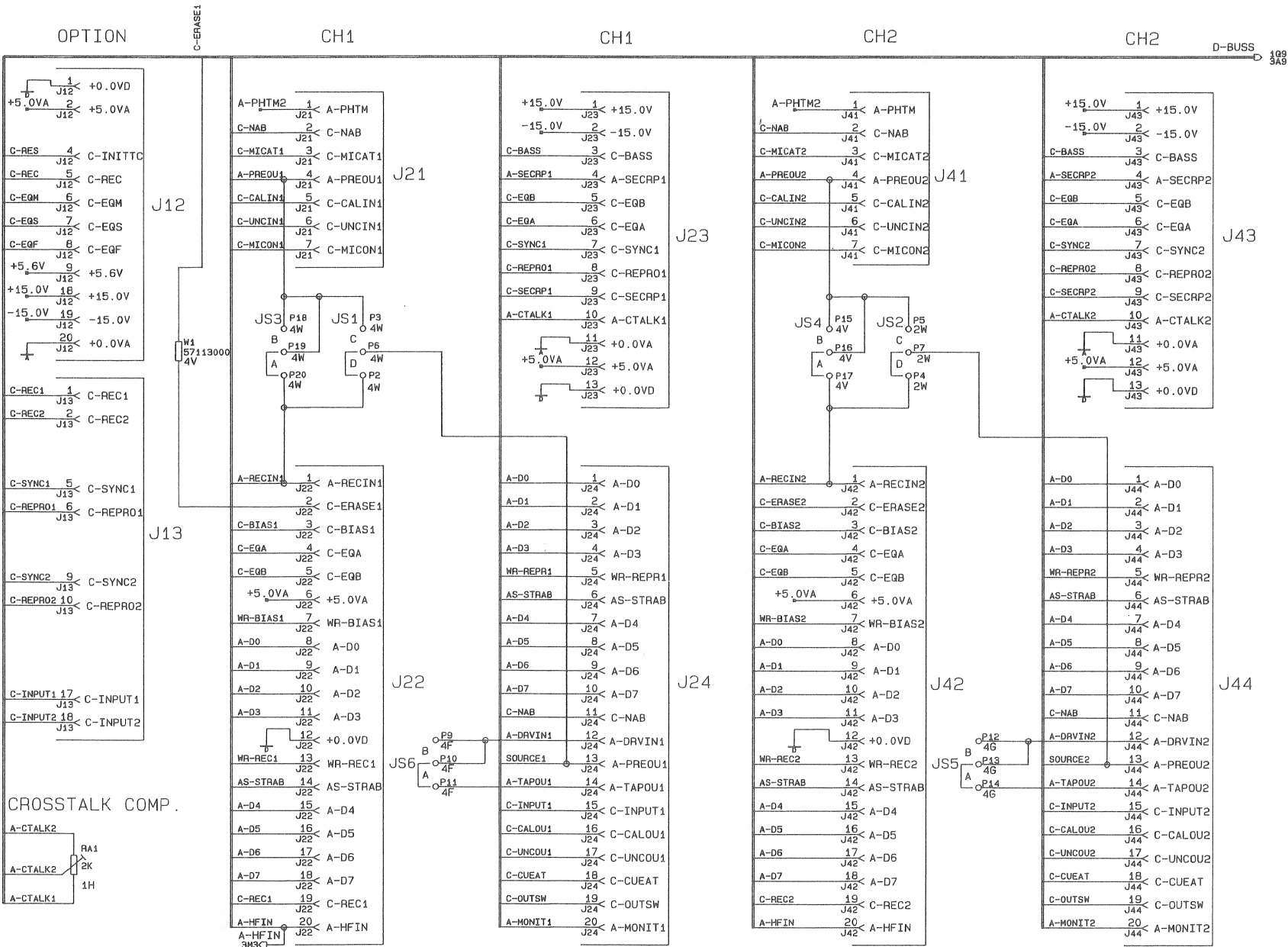
★ J1.18A NOT USED FOR 1.727.670.00 / 671.00

|            |    |                         |   |                 |             |
|------------|----|-------------------------|---|-----------------|-------------|
| ① 30.05.90 | DS | ① 13.11.90 DS           | ○ | ○               | ○           |
| A 807 GR40 |    |                         |   |                 | PAGE 1 OF 3 |
| STUDER     |    | AUDIO CONTROL BOARD 2CH |   | SC 1.727.670-82 |             |

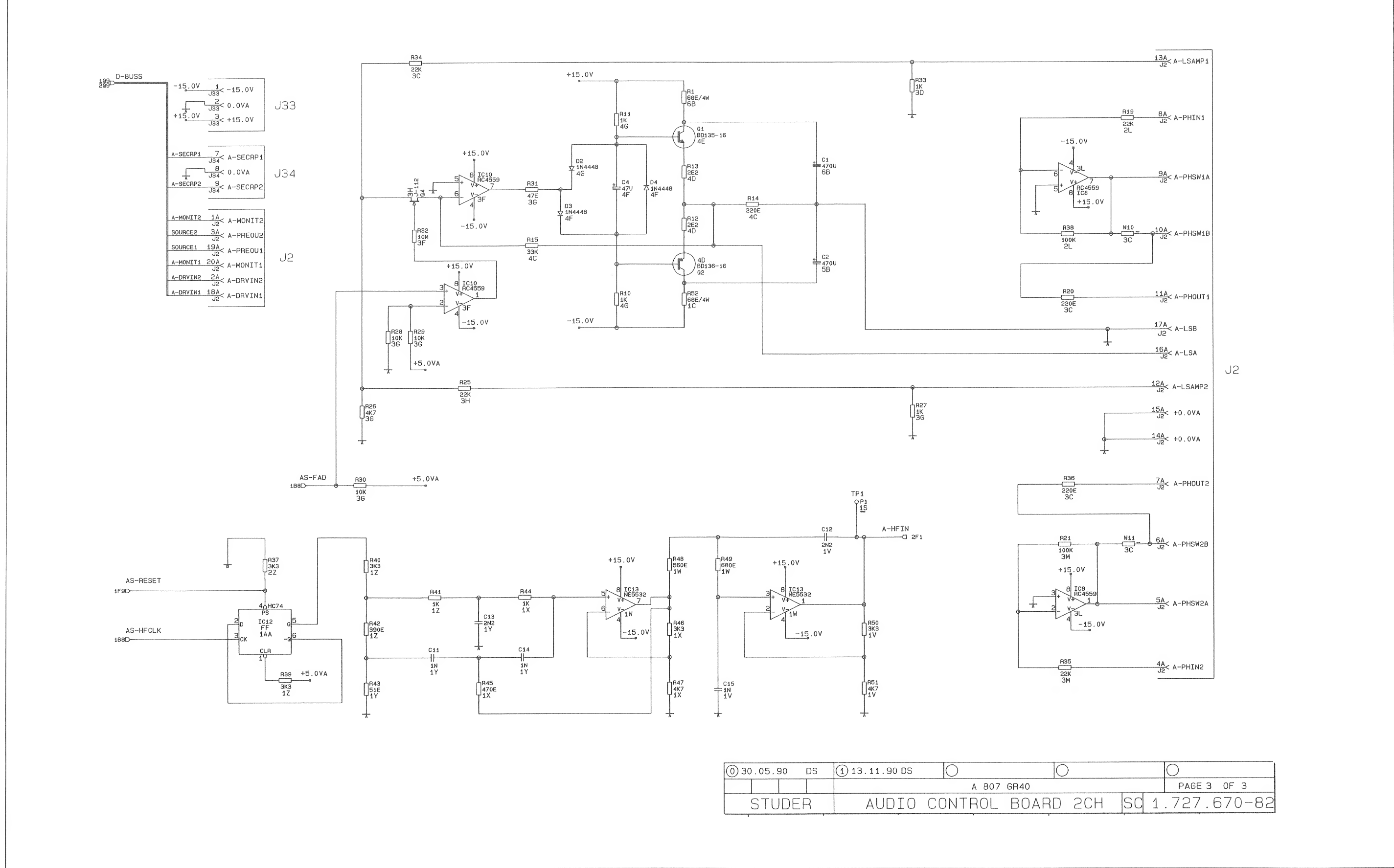
AUDIO CONTROL BOARD (2CH) 1.727.670.82 / 1.727.671.82 (HS)

JUMPER-POSITION JS1, JS2  
SOURCE-SIGNAL:  
C= FROM PREAMPLIFIER  
D= FROM RECORD INPUT

JUMPER-POSITION JS3, JS4, JS5, JS6  
A= WITHOUT OPTION  
B= WITH OPTION



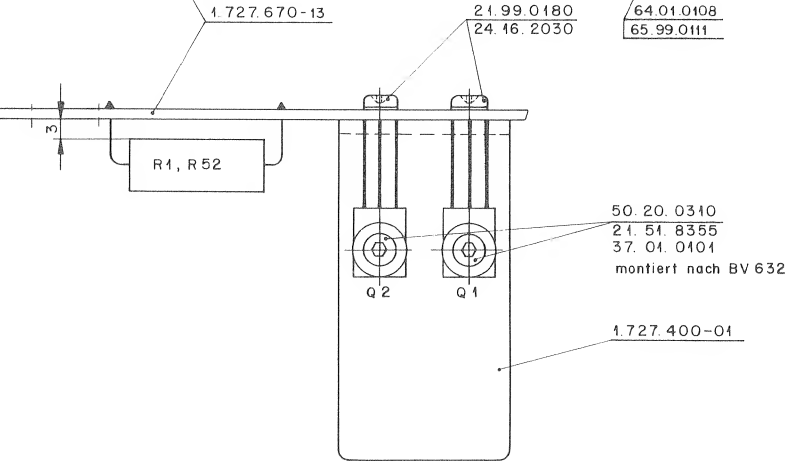
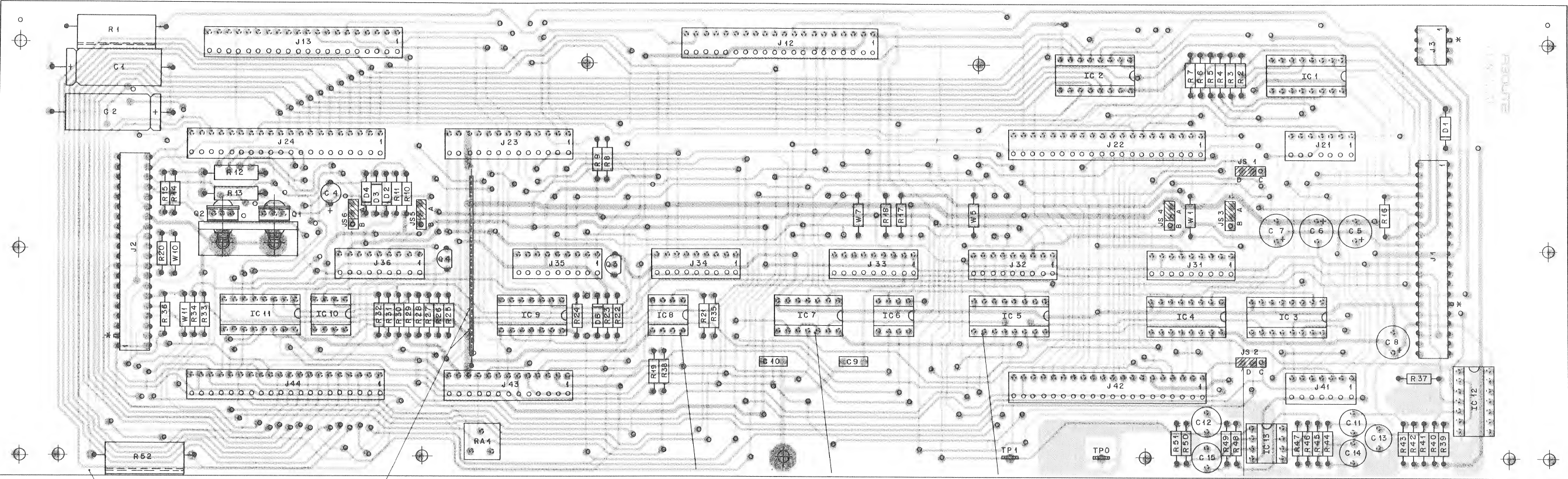
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| ① 30.05.90 DS | ① 13.11.90 DS           | ○ | ○               | ○ |
| A 807 GR40    |                         |   |                 |   |
| PAGE 2 OF 3   |                         |   |                 |   |
| STUDER        | AUDIO CONTROL BOARD 2CH |   | SQ 1.727.670-82 |   |



|            |    |                         |            |    |              |
|------------|----|-------------------------|------------|----|--------------|
| ① 30.05.90 | DS | ① 13.11.90 DS           |            |    |              |
|            |    |                         | A 807 GR40 |    | PAGE 3 OF 3  |
| STUDER     |    | AUDIO CONTROL BOARD 2CH |            | SC | 1.727.670-82 |



AUDIO CONTROL BOARD (2CH) 1.727.670.82 / 1.727.671.82 (HS)



53.03.0166 (4x) 53.03.0167 (3x) 53.03.0168 (6x)

Bestückt  
54.01.0021 (6x)  
Jumper - Position JS 1, JS 2  
Source - Signal  
C = from Pre - Amplifier  
D = from Record - Input

Jumper - Position JS 3, JS 4, JS 5, JS 6  
A = without Option  
B = with Option

| IND.      | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|------------|----------|-------|-----------------------------|--------|----------|--------------|----------|-------------------|-----------------------------|--------|
| C.....1   | 59.25.3471 | 470 uF   | -20%  | 16 V EL                     |        | J.....1  | 54.01.0248   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| C.....2   | 59.25.3471 | 470 uF   | -20%  | 16 V EL                     |        | J.....2  | 54.01.0248   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| C.....4   | 59.22.3470 | 47 uF    | -20%  | 10 V EL                     |        | J.....3  | 54.01.0304   | 4-POLE   | CIS Socket Strip  | AMP                         |        |
| C.....5   | 59.22.8100 | 10 uF    | -20%  | 63 EL                       |        | J.....11 |              |          | not used          |                             |        |
| C.....6   | 59.22.5101 | 100 uF   | -20%  | 25 V EL                     |        | J.....12 | 54.01.0226   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| C.....7   | 59.22.5101 | 100 uF   | -20%  | 25 V EL                     |        | J.....13 | 54.01.0226   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| C.....8   | 59.22.5101 | 100 uF   | -20%  | 25 V EL                     |        | J.....21 | 54.01.0218   | 7-POLE   | CIS Socket Strip  | AMP                         |        |
| C.....9   | 59.06.0683 | 68 nF    | 10%   | 63 V PETP                   |        | J.....22 | 54.01.0226   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| C.....10  | 59.06.0683 | 68 nF    | 10%   | 63 V PETP                   |        | J.....23 | 54.01.0292   | 13-POLE  | CIS Socket Strip  | AMP                         |        |
| C.....11  | 59.05.1102 | 1 nF     | 1%    | 160 V PP                    |        | J.....24 | 54.01.0226   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| C.....12  | 59.05.1222 | 2.2 nF   | 1%    | 160 V PP                    |        | J.....31 | 54.01.0217   | 9-POLE   | CIS Socket Strip  | AMP                         |        |
| C.....13  | 59.05.1222 | 2.2 nF   | 1%    | 160 V PP                    |        | J.....32 | 54.01.0217   | 9-POLE   | CIS Socket Strip  | AMP                         |        |
| C.....14  | 59.05.1102 | 1 nF     | 1%    | 160 V PP                    |        | J.....33 | 54.01.0217   | 9-POLE   | CIS Socket Strip  | AMP                         |        |
| C.....15  | 59.05.1102 | 1 nF     | 1%    | 160 V PP                    |        | J.....34 | 54.01.0217   | 9-POLE   | CIS Socket Strip  | AMP                         |        |
| D.....1   | 50.04.0512 | 1N5819   |       | 30V                         | Not    | J.....35 | 54.01.0217   | 9-POLE   | CIS Socket Strip  | AMP                         |        |
| D.....2   | 50.04.0125 | 1N4448   |       | 50V                         |        | J.....36 | 54.01.0217   | 9-POLE   | CIS Socket Strip  | AMP                         |        |
| D.....3   | 50.04.0125 | 1N4448   |       | 50V                         |        | J.....41 | 54.01.0218   | 7-POLE   | CIS Socket Strip  | AMP                         |        |
| D.....4   | 50.04.0125 | 1N4448   |       | 50V                         |        | J.....42 | 54.01.0226   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| D.....5   |            |          |       |                             |        | J.....43 | 54.01.0292   | 13-POLE  | CIS Socket Strip  | AMP                         |        |
| D.....6   | 50.04.0125 | 1N4448   |       | not used 50V                |        | J.....44 | 54.01.0226   | 20-POLE  | CIS Socket Strip  | AMP                         |        |
| D.....7   |            |          |       | not used                    |        | JS.....1 | 54.01.0021   |          | Bridge            |                             |        |
| IC.....1  | 50.07.0018 | MC14094  |       | CMOS                        | Not    | JS.....2 | 54.01.0021   |          | Bridge            |                             |        |
| IC.....2  | 50.07.0018 | MC14094  |       | CMOS                        | Not    | JS.....3 | 54.01.0021   |          | Bridge            |                             |        |
| IC.....3  | 50.07.0018 | MC14094  |       | CMOS                        | Not    | JS.....4 | 54.01.0021   |          | Bridge            |                             |        |
| IC.....4  | 50.07.0018 | MC14094  |       | CMOS                        | Not    | JS.....5 | 54.01.0021   |          | Bridge            |                             |        |
| IC.....5  | 50.07.0018 | MC14094  |       | CMOS                        | Not    | JS.....6 | 54.01.0021   |          | Bridge            |                             |        |
| IC.....6  | 50.05.0283 | LM393    |       | Dual Comparator             |        | MP.....1 | 1.727.670.13 | 1 pce    | Audio Control PCB | St                          |        |
| IC.....7  | 50.17.1000 | 74HC00   |       | HCNOS                       |        | MP.....2 | 1.727.400.01 | 1 pce    | Heatsink          | St                          |        |
| IC.....8  | 50.09.0107 | RC4559   |       | Dual Op. Amp.               |        | MP.....3 | 1.727.670.10 | 1 pce    | No. label         | St                          |        |
| IC.....9  | 50.17.1002 | 74HC02   |       | HCNOS                       |        | MP.....4 | 21.99.0180   | 2 pce    | Screw M3 x 5      |                             |        |
| IC.....10 | 50.09.0107 | RC4559   |       | Dual Op. Amp.               |        | MP.....5 | 21.53.0355   | 2 pce    | Screw M3 x 8      |                             |        |
| IC.....11 | 50.07.0018 | MC14094  |       | CMOS                        | Not    | MP.....6 | 24.16.2030   | 2 pce    | Lock washer       |                             |        |
| IC.....12 | 50.17.1074 | 74HC74   |       | HCNOS                       |        | MP.....7 | 37.01.0101   | 4 pce    | Lock washer       | St                          |        |
| IC.....13 | 50.09.0105 | NE5532   |       | Dual Op. Amp.               |        | MP.....8 | 43.01.0108   | 1 pce    | ESE warning label | St                          |        |
|           |            |          |       |                             |        | MP.....9 | 54.01.0020   | 18 pce   | Contact pin       |                             |        |

## AUDIO CONTROL BOARD (2CH) 1.727.670.82

| IND.    | POS.NO.    | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF.  |
|---------|------------|----------|----------------|-----------------------------|---------|
| Q....1  | 50.03.0495 | BD135-16 |                | NPN                         |         |
| Q....2  | 50.03.0510 | BD136-16 |                | NPN                         |         |
| Q....3  | 50.03.0436 | BC237B   | BC547B, BC550B | NPN                         |         |
| Q....4  | 50.03.0350 | MPF4392  | J112           | FET                         | Met,Six |
| R....1  | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR    |                             |         |
| R....2  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....3  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....4  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....5  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....6  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....7  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....8  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....9  | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....10 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF  |                             |         |
| R....11 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF  |                             |         |
| R....12 | 57.13.4229 | 2.2 Ohm  | 2%, 0.5 W, MF  |                             |         |
| R....13 | 57.13.4229 | 2.2 Ohm  | 2%, 0.5 W, MF  |                             |         |
| R....14 | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF  |                             |         |
| R....15 | 57.11.3333 | 33 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....16 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....17 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....18 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....19 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....20 | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF  |                             |         |
| R....21 | 57.11.3104 | 100 kOhm | 2%, 0.25W, MF  |                             |         |
| R....22 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....23 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....24 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF  |                             |         |
| R....25 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....26 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF  |                             |         |
| R....27 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF  |                             |         |
| R....28 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....29 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....30 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |         |
| R....31 | 57.11.3470 | 47 Ohm   | 2%, 0.25W, MF  |                             |         |
| R....32 | 57.11.5106 | 10 MOhm  | 5%, 0.25W, MF  |                             |         |

S T U D E R (00) 90/04/18 Wth AUDIO CONTROL BOARD PL 1.727.670.82 PAGE 3

| IND.    | POS.NO.    | PART NO. | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|---------------|-----------------------------|--------|
| R....33 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF |                             |        |
| R....34 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF |                             |        |
| R....35 | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF |                             |        |
| R....36 | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF |                             |        |
| R....37 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |        |
| R....38 | 57.11.3104 | 100 kOhm | 2%, 0.25W, MF |                             |        |
| R....39 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |        |
| R....40 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |        |
| R....41 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF |                             |        |
| R....42 | 57.11.3391 | 390 Ohm  | 2%, 0.25W, MF |                             |        |
| R....43 | 57.11.3510 | 51 Ohm   | 1%, 0.25W, MF |                             |        |
| R....44 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF |                             |        |
| R....45 | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF |                             |        |
| R....46 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |        |
| R....47 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF |                             |        |
| R....48 | 57.11.3561 | 560 Ohm  | 2%, 0.25W, MF |                             |        |
| R....49 | 57.11.3681 | 680 Ohm  | 2%, 0.25W, MF |                             |        |
| R....50 | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF |                             |        |
| R....51 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF |                             |        |
| R....52 | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR   |                             |        |
| RA....1 | 58.01.8202 | 2 kOhm   | Potmeter PMG  |                             |        |
| TP....0 | 54.02.0320 |          | PLUG 2.8x0.8  |                             |        |
| TP....1 | 54.02.0320 |          | PLUG 2.8x0.8  |                             |        |
| W....1  | 57.11.3000 |          | Wire Bridge   |                             |        |
| W....5  | 57.11.3000 |          | Wire Bridge   |                             |        |
| W....6  |            |          | not used      |                             |        |
| W....7  | 57.11.3000 |          | Wire Bridge   |                             |        |
| W....8  |            |          | not used      |                             |        |
| W....9  |            |          | not used      |                             |        |
| W....10 | 57.11.3000 |          | Wire Bridge   |                             |        |
| W....11 | 57.11.3000 |          | Wire Bridge   |                             |        |
| XIC...1 | 53.03.0168 | 16 pol   | IC Socket     |                             |        |
| XIC...2 | 53.03.0168 | 16 pol   | IC Socket     |                             |        |

S T U D E R (00) 90/04/18 Wth AUDIO CONTROL BOARD PL 1.727.670.82 PAGE 4

| IND.     | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|------------|----------|-----------|-----------------------------|--------|
| XIC...3  | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| XIC...4  | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| XIC...5  | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| XIC...6  | 53.03.0166 | 8 pol    | IC Socket |                             |        |
| XIC...7  | 53.03.0167 | 14 pol   | IC Socket |                             |        |
| XIC...8  | 53.03.0166 | 8 pol    | IC Socket |                             |        |
| XIC...9  | 53.03.0167 | 14 pol   | IC Socket |                             |        |
| XIC...10 | 53.03.0166 | 8 pol    | IC Socket |                             |        |
| XIC...11 | 53.03.0168 | 16 pol   | IC Socket |                             |        |
| XIC...12 | 53.03.0167 | 14 pol   | IC Socket |                             |        |
| XIC...13 | 53.03.0166 | 8 pol    | IC Socket |                             |        |

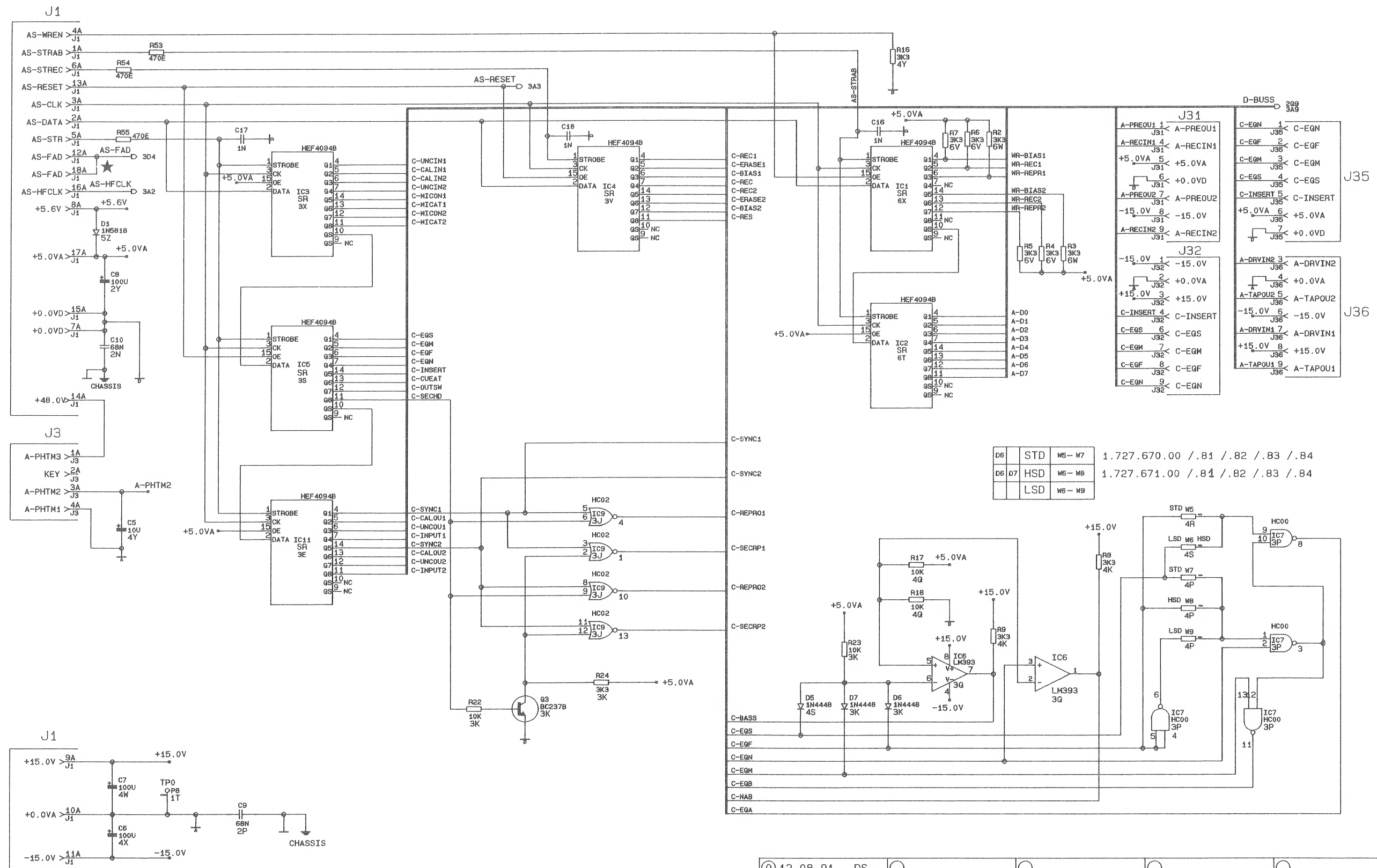
EL=Electrolytic, PP=Polypropylen, SI=Silicon, MF=Metal Film  
PETP=Polyester,

MANUFACTURER=Met=Motorola, St=Studer, Six=Siliconix

ORIG 90/04/18

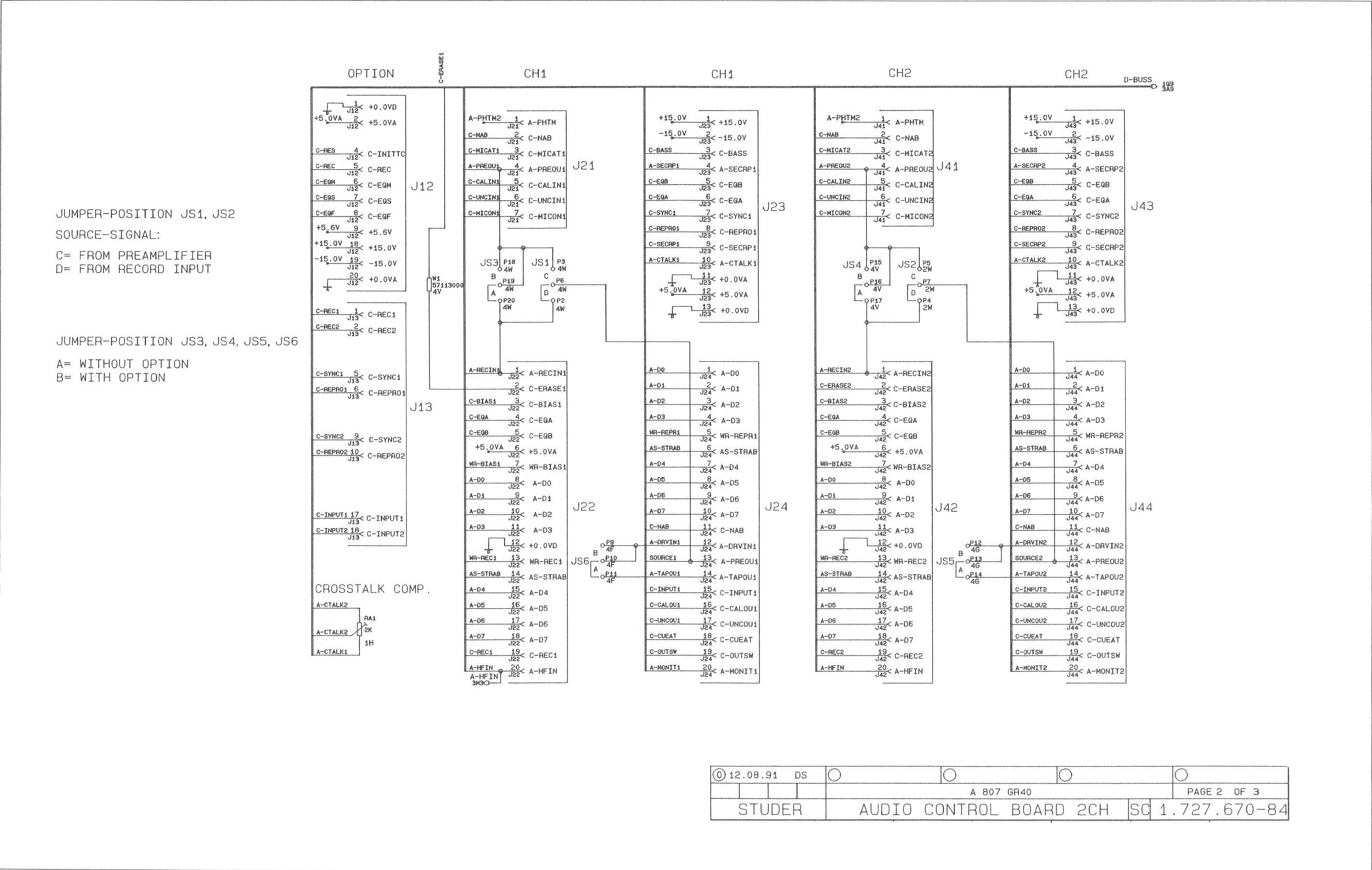
S T U D E R (00) 90/04/18 Wth AUDIO CONTROL BOARD PL 1.727.670.82 PAGE 5

## AUDIO CONTROL BOARD (2CH) 1.727.670.84 / 1.727.671.84 (HS)

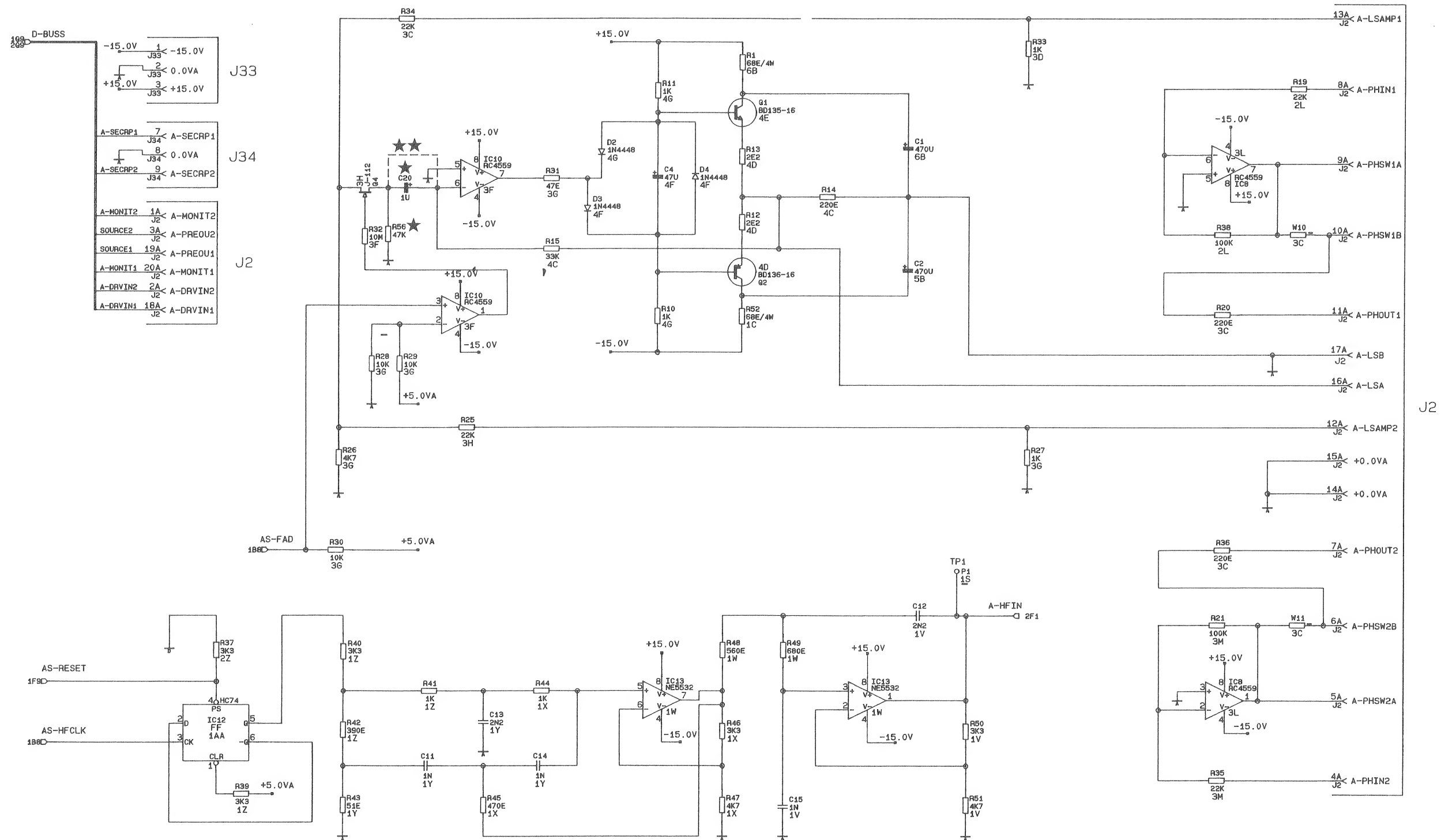


★ J1.18A NOT USED FOR 1.727.670.00 / 671.00

AUDIO CONTROL BOARD (2CH) 1.727.670.84 / 1.727.671.84 (HS)



**AUDIO CONTROL BOARD (2CH) 1.727.670.84 / 1.727.671.84 (HS)**

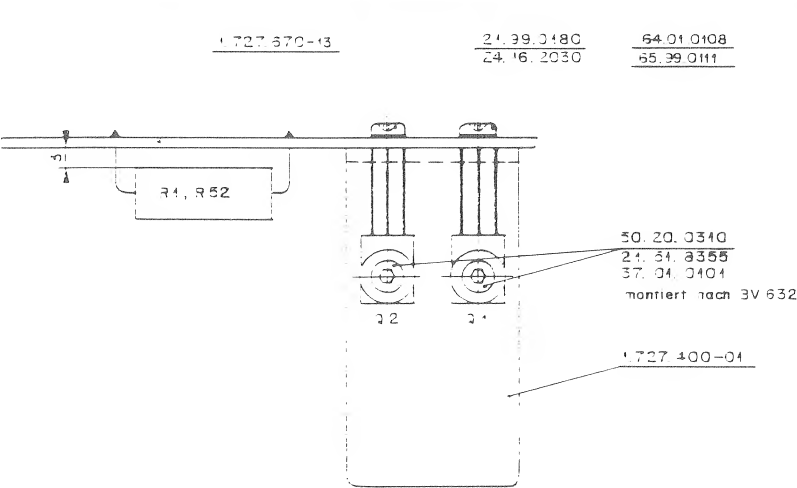
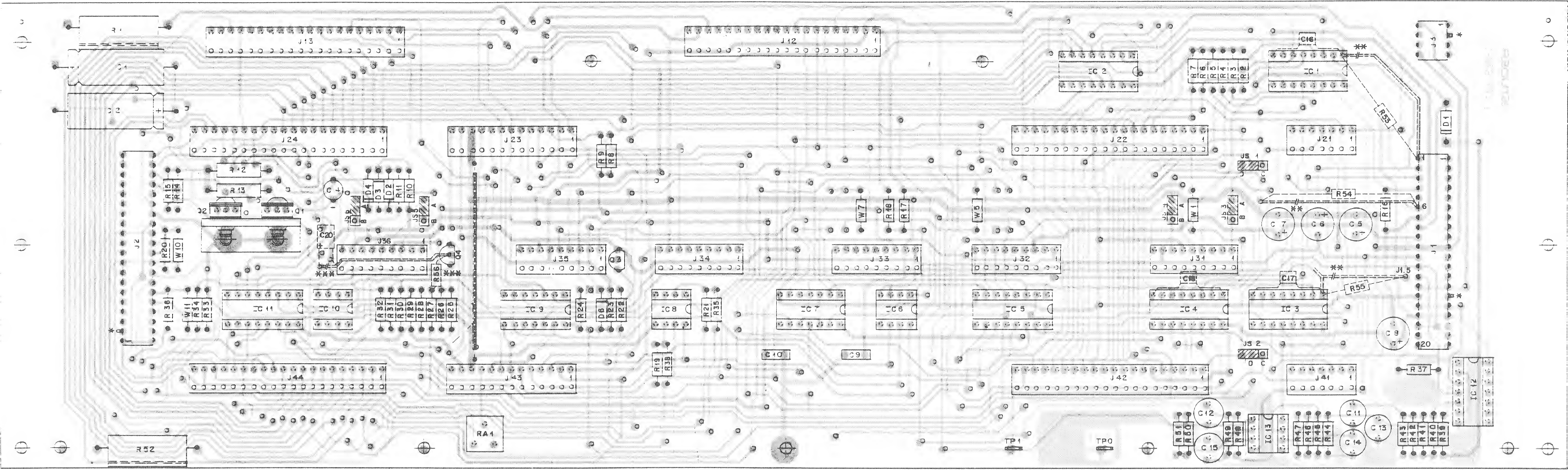


★C20, R56 FOR PCB 1.727.670-13 ONLY  
★★FOR PCB 1.727.670-11 AND-12

|            |    |                         |   |   |                 |
|------------|----|-------------------------|---|---|-----------------|
| ① 12.08.91 | DS | ○                       | ○ | ○ | ○               |
|            |    | A 807 GR40              |   |   | PAGE 3 OF 3     |
| STUDER     |    | AUDIO CONTROL BOARD 2CH |   |   | SC 1.727.670-84 |



AUDIO CONTROL BOARD (2CH) 1.727.670.84 / 1.727.671.84 (HS)



53.03.0166 (4x)    53.03.0167 (3x)    53.03.0168 (6x)

Bestückt  
54.01.0021 (6x)  
Jumper - Position JS1, JS2  
Source - Signal  
C = from Pre - Amplifier  
D = from Record - Input

Jumper - Position JS3, JS4, JS5, JS6  
A = without Option  
B = with Option

\*\*\* Leiterbahn auf Lötseite auftrennen.  
C16, C17, C18, R53, R54, R55  
auf Lötseite und mit Teflonschlauch  
65.99.0111 isolieren (ohne R55).

\*\*\* Leiterbahn auf Lötseite auftrennen.  
C20 und R56 auf Lötseite.  
(für C20 Lötstopp einseitig entfernen).

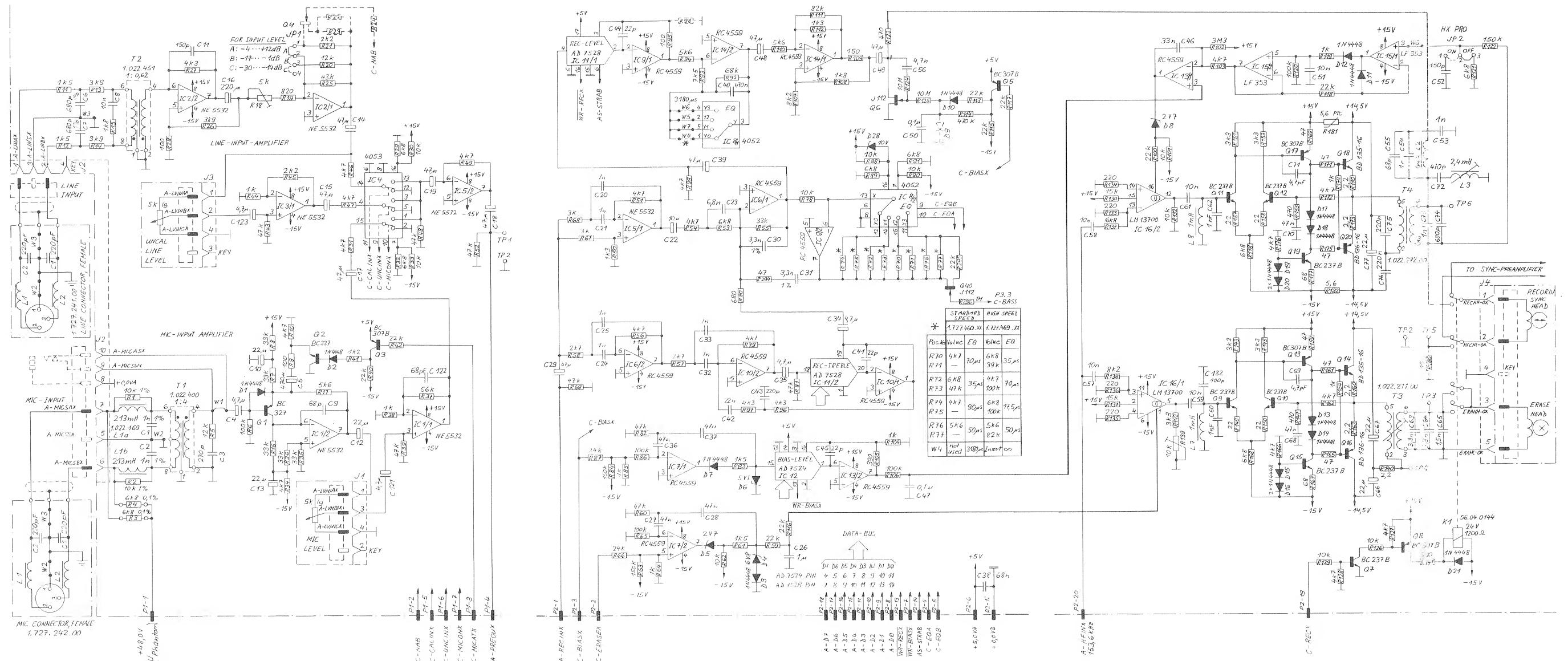
nur bei PCB  
1.727.670-13



## AUDIO CONTROL BOARD (2CH) 1.727.670.84

| IND.  | POS.NO.      | PART NO. | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF.  | IND.  | POS.NO.    | PART NO. | VALUE                     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---|--------------|----------|--------------------------|-----------------------------|---------|---|------------|----------|---------------------------|-----------------------------|--------|
| C....1  | 59.25.3471   | 470 uF   | -20% 16 V EL             |                             |         | R....27   | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF             |                             |        |
| C....2  | 59.25.3471   | 470 uF   | -20% 16 V EL             |                             |         | R....28   | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF             |                             |        |
| C....4  | 59.22.3470   | 47 uF    | -20% 10 V EL             |                             |         | R....29   | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF             |                             |        |
| C....5  | 59.22.8100   | 10 uF    | -20% 63 V EL             |                             |         | R....30   | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF             |                             |        |
| C....6  | 59.22.5101   | 100 uF   | -20% 25 V EL             |                             |         | R....31   | 57.11.3470 | 47 Ohm   | 2%, 0.25W, MF             |                             |        |
| C....7  | 59.22.5101   | 100 uF   | -20% 25 V EL             |                             |         | R....32   | 57.11.5106 | 10 MOhm  | 5%, 0.25W, MF             |                             |        |
| C....8  | 59.22.5101   | 100 uF   | -20% 25 V EL             |                             |         | R....33   | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF             |                             |        |
| C....9  | 59.06.0683   | 68 nF    | 10% 63 V PETP            |                             |         | R....34   | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF             |                             |        |
| C....10   | 59.06.0683   | 68 nF    | 10% 63 V PETP            |                             |         | R....35   | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF             |                             |        |
| C....11   | 59.05.1102   | 1 nF     | 1% 160 V PP              |                             |         | R....36   | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF             |                             |        |
| C....12   | 59.05.1222   | 2.2 nF   | 1% 160 V PP              |                             |         | R....37   | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF             |                             |        |
| C....13   | 59.05.1222   | 2.2 nF   | 1% 160 V PP              |                             |         | R....38   | 57.11.3104 | 100 kOhm | 2%, 0.25W, MF             |                             |        |
| C....14   | 59.05.1102   | 1 nF     | 1% 160 V PP              |                             |         | R....39   | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF             |                             |        |
| C....15   | 59.05.1102   | 1 nF     | 1% 160 V PP              |                             |         | R....40   | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF             |                             |        |
| C....16   | 59.44.4102   | 1 nF     | 20% 50 V CER             |                             |         | R....41   | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF             |                             |        |
| C....17   | 59.44.4102   | 1 nF     | 20% 50 V CER             |                             |         | R....42   | 57.11.3391 | 390 Ohm  | 2%, 0.25W, MF             |                             |        |
| C....18   | 59.44.4102   | 1 nF     | 20% 50 V CER             |                             |         | R....43   | 57.11.3510 | 51 Ohm   | 1%, 0.25W, MF             |                             |        |
| C....19   |              |          | not used                 |                             |         | R....44   | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF             |                             |        |
| C....20   | 59.26.5109   | 10 uF    | 20% 25 V SAL, see note 1 |                             |         | R....45   | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF             |                             |        |
| D....1  | 50.04.0512   | 1N5819   | 30V                      |                             | Not     | R....46   | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF             |                             |        |
| D....2  | 50.04.0125   | 1N4448   | 50V                      |                             |         | R....47   | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF             |                             |        |
| D....3  | 50.04.0125   | 1N4448   | 50V                      |                             |         | R....48   | 57.11.3561 | 560 Ohm  | 2%, 0.25W, MF             |                             |        |
| D....4  | 50.04.0125   | 1N4448   | 50V                      |                             |         | R....49   | 57.11.3681 | 680 Ohm  | 2%, 0.25W, MF             |                             |        |
| D....5  | 50.04.0125   | 1N4448   | not used                 |                             |         | R....50   | 57.11.3332 | 3.3 kOhm | 2%, 0.25W, MF             |                             |        |
| D....6  |              |          | not used                 |                             |         | R....51   | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF             |                             |        |
| D....7  |              |          | not used                 |                             |         | R....52   | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR               |                             |        |
| IC....1   | 50.07.0018   | MC14094  | CMOS                     |                             | Not     | R....53   | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF             |                             |        |
| IC....2   | 50.07.0018   | MC14094  | CMOS                     |                             | Not     | R....54   | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF             |                             |        |
| IC....3   | 50.07.0018   | MC14094  | CMOS                     |                             | Not     | R....55   | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF, see note 1 |                             |        |
| IC....4   | 50.07.0018   | MC14094  | CMOS                     |                             | Not     | RA....1   | 58.01.8202 | 2 kOhm   | Potmeter PMG              |                             |        |
| IC....5   | 50.07.0018   | MC14094  | CMOS                     |                             | Not     | TP....0   | 54.02.0320 |          | PLUG 2.8x0.8              |                             |        |
| IC....6   | 50.05.0283   | LW393    | Dual Comparator          |                             |         | TP....1   | 54.02.0320 |          | PLUG 2.8x0.8              |                             |        |
| IC....7   | 50.17.1000   | 74HC00   | HCMOS                    |                             |         | W....1  | 57.11.3000 |          | Wire Bridge               |                             |        |
| IC....8   | 50.09.0107   | RC4559   | Dual Op. Amp.            |                             |         |   |            |          |                           |                             |        |
| IC....9   | 50.17.1002   | 74HC02   | HCMOS                    |                             |         |   |            |          |                           |                             |        |
| S T U D E R (00) 91/08/12 GP AUDIO CONTROL BOARD PL 1.727.670.84 PAGE 1 |              |          |                          |                             |         | S T U D E R (00) 91/08/12 GP AUDIO CONTROL BOARD PL 1.727.670.84 PAGE 4   |            |          |                           |                             |        |
| IND.  | POS.NO.      | PART NO. | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF.  | IND.  | POS.NO.    | PART NO. | VALUE                     | SPECIFICATIONS / EQUIVALENT | MANUF. |
| IC....10  | 50.09.0107   | RC4559   | Dual Op. Amp.            |                             |         | W....5  | 57.11.3000 |          | Wire Bridge               |                             |        |
| IC....11  | 50.07.0018   | MC14094  | CMOS                     |                             | Not     | W....6  |            |          | not used                  |                             |        |
| IC....12  | 50.17.1014   | 74HC74   | HCMOS                    |                             |         | W....7  | 57.11.3000 |          | Wire Bridge               |                             |        |
| IC....13  | 50.09.0105   | NE5532   | Dual Op. Amp.            |                             |         | W....8  |            |          | not used                  |                             |        |
| J....1  | 54.01.0248   | 20-POLE  | CIS Socket Strip         |                             | AMP     | W....9  |            |          | not used                  |                             |        |
| J....2  | 54.01.0248   | 20-POLE  | CIS Socket Strip         |                             | AMP     | W....10   | 57.11.3000 |          | Wire Bridge               |                             |        |
| J....3  | 54.01.0304   | 4-POLE   | CIS Socket Strip         |                             | AMP     | W....11   | 57.11.3000 |          | Wire Bridge               |                             |        |
| J....11   | 54.01.0226   | 20-POLE  | CIS Socket Strip         |                             | AMP     | XIC....1  | 53.03.0168 | 16 pol   | IC Socket                 |                             |        |
| J....12   | 54.01.0226   | 20-POLE  | CIS Socket Strip         |                             | AMP     | XIC....2  | 53.03.0168 | 16 pol   | IC Socket                 |                             |        |
| J....13   | 54.01.0226   | 20-POLE  | CIS Socket Strip         |                             | AMP     | XIC....3  | 53.03.0168 | 16 pol   | IC Socket                 |                             |        |
| J....21   | 54.01.0218   | 7-POLE   | CIS Socket Strip         |                             | AMP     | XIC....4  | 53.03.0168 | 16 pol   | IC Socket                 |                             |        |
| J....22   | 54.01.0226   | 20-POLE  | CIS Socket Strip         |                             | AMP     | XIC....5  | 53.03.0168 | 16 pol   | IC Socket                 |                             |        |
| J....23   | 54.01.0226   | 13-POLE  | CIS Socket Strip         |                             | AMP     | XIC....6  | 53.03.0166 | 8 pol    | IC Socket                 |                             |        |
| J....24   | 54.01.0226   | 20-POLE  | CIS Socket Strip         |                             | AMP     | XIC....7  | 53.03.0167 | 14 pol   | IC Socket                 |                             |        |
| J....31   | 54.01.0217   | 9-POLE   | CIS Socket Strip         |                             | AMP     | XIC....8  | 53.03.0166 | 8 pol    | IC Socket                 |                             |        |
| J....32   | 54.01.0217   | 9-POLE   | CIS Socket Strip         |                             | AMP     | XIC....9  | 53.03.0167 | 14 pol   | IC Socket                 |                             |        |
| J....33   | 54.01.0217   | 9-POLE   | CIS Socket Strip         |                             | AMP     | XIC....10   | 53.03.0166 | 8 pol    | IC Socket                 |                             |        |
| J....34   | 54.01.0217   | 9-POLE   | CIS Socket Strip         |                             | AMP     | XIC....11   | 53.03.0168 | 16 pol   | IC Socket                 |                             |        |
| J....35   | 54.01.0217   | 9-POLE   | CIS Socket Strip         |                             | AMP     | XIC....12   | 53.03.0167 | 14 pol   | IC Socket                 |                             |        |
| J....36   | 54.01.0217   | 9-POLE   | CIS Socket Strip         |                             | AMP     | XIC....13   | 53.03.0166 | 8 pol    | IC Socket                 |                             |        |
| J....41   | 54.01.0218   | 7-POLE   | CIS Socket Strip         |                             | AMP     |   |            |          |                           |                             |        |
| J....42   | 54.01.0226   | 20-POLE  | CIS Socket Strip         |                             | AMP     |   |            |          |                           |                             |        |
| J....43   | 54.01.0292   | 13-POLE  | CIS Socket Strip         |                             | AMP     |   |            |          |                           |                             |        |
| J....44   | 54.01.0226   | 20-POLE  | CIS Socket Strip         |                             | AMP     |   |            |          |                           |                             |        |
| JS....1   | 54.01.0021   |          | Bridge                   |                             |         | Note 1: Eliminate very low frequency oscillation at max. monitor-volume (for PCB 1.727.670-13 only).<br><br>EL=Electrolytic, PP=Polypropylen, SI=Silicon, MF=Metal Film<br>PETP=Polyester, SAL=Solid Aluminium<br><br>MANUFACTURER: Mot=Motorola, St=Studer, Six=Siliconix<br><br>ORIG 91/08/12 |            |          |                           |                             |        |
| JS....2   | 54.01.0021   |          | Bridge                   |                             |         |   |            |          |                           |                             |        |
| JS....3   | 54.01.0021   |          | Bridge                   |                             |         |   |            |          |                           |                             |        |
| JS....4   | 54.01.0021   |          | Bridge                   |                             |         |   |            |          |                           |                             |        |
| JS....5   | 54.01.0021   |          | Bridge                   |                             |         |   |            |          |                           |                             |        |
| MP....1   | 1.727.670.13 | 1 pce    | Audio Control PCB        |                             | St      |   |            |          |                           |                             |        |
| MP....2   | 1.727.400.01 | 1 pce    | Heat sink                |                             | St      |   |            |          |                           |                             |        |
| MP....3   | 1.727.670.10 | 1 pce    | No. label                |                             | St      |   |            |          |                           |                             |        |
| MP....4   | 21.99.0180   | 2 pce    | Screw M3 x 5             |                             |         |   |            |          |                           |                             |        |
| S T U D E R (00) 91/08/12 GP AUDIO CONTROL BOARD PL 1.727.670.84 PAGE 2 |              |          |                          |                             |         | S T U D E R (00) 91/08/12 GP AUDIO CONTROL BOARD PL 1.727.670.84 PAGE 5   |            |          |                           |                             |        |
| IND.  | POS.NO.      | PART NO. | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF.  | IND.  | POS.NO.    | PART NO. | VALUE                     | SPECIFICATIONS / EQUIVALENT | MANUF. |
| MP....5   | 21.53.0355   | 2 pce    | Screw M3 x 8             |                             |         |   |            |          |                           |                             |        |
| MP....6   | 24.16.2030   | 2 pce    | Lock washer              |                             |         |   |            |          |                           |                             |        |
| MP....7   | 37.01.0101   | 4 pce    | Lock washer              |                             | St      |   |            |          |                           |                             |        |
| MP....8   | 43.01.0108   | 1 pce    | ESE warning label        |                             | St      |   |            |          |                           |                             |        |
| MP....9   | 54.01.0020   | 18 pce   | Contact pin              |                             |         |   |            |          |                           |                             |        |
| Q....1  | 50.03.0495   | BD135-16 |                          | NPN                         |         |   |            |          |                           |                             |        |
| Q....2  | 50.03.0510   | BD136-16 |                          | PNP                         |         |   |            |          |                           |                             |        |
| Q....3  | 50.03.0436   | BC237B   | BC547B, BC550B           | NPN                         |         |   |            |          |                           |                             |        |
| Q....4  | 50.03.0350   | MPP4392  | J112                     | FET                         | Mot/Six |   |            |          |                           |                             |        |
| R....1  | 57.56.5680   | 68 Ohm   | 2%, 4 W, DR              |                             |         |   |            |          |                           |                             |        |
| R....2  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....3  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....4  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....5  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....6  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....7  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....8  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....9  | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....10   | 57.11.3102   | 1 kOhm   | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....11   | 57.11.3102   | 1 kOhm   | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....12   | 57.13.4229   | 2.2 Ohm  | 2%, 0.5 W, MF            |                             |         |   |            |          |                           |                             |        |
| R....13   | 57.13.4229   | 2.2 Ohm  | 2%, 0.5 W, MF            |                             |         |   |            |          |                           |                             |        |
| R....14   | 57.11.3221   | 220 Ohm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....15   | 57.11.3333   | 33 kOhm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....16   | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....17   | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....18   | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....19   | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....20   | 57.11.3221   | 220 Ohm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....21   | 57.11.3104   | 100 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....22   | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....23   | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....24   | 57.11.3332   | 3.3 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....25   | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| R....26   | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF            |                             |         |   |            |          |                           |                             |        |
| S T U D E R (00) 91/08/12 GP AUDIO CONTROL BOARD PL 1.727.670.84 PAGE 3 |              |          |                          |                             |         |   |            |          |                           |                             |        |

**AUDIO ELECTRONICS BOARD 2VU 1.727.460.83**  
**-AUDIO ELECTRONICS BOARD 2VU HS 1.727.469.81**

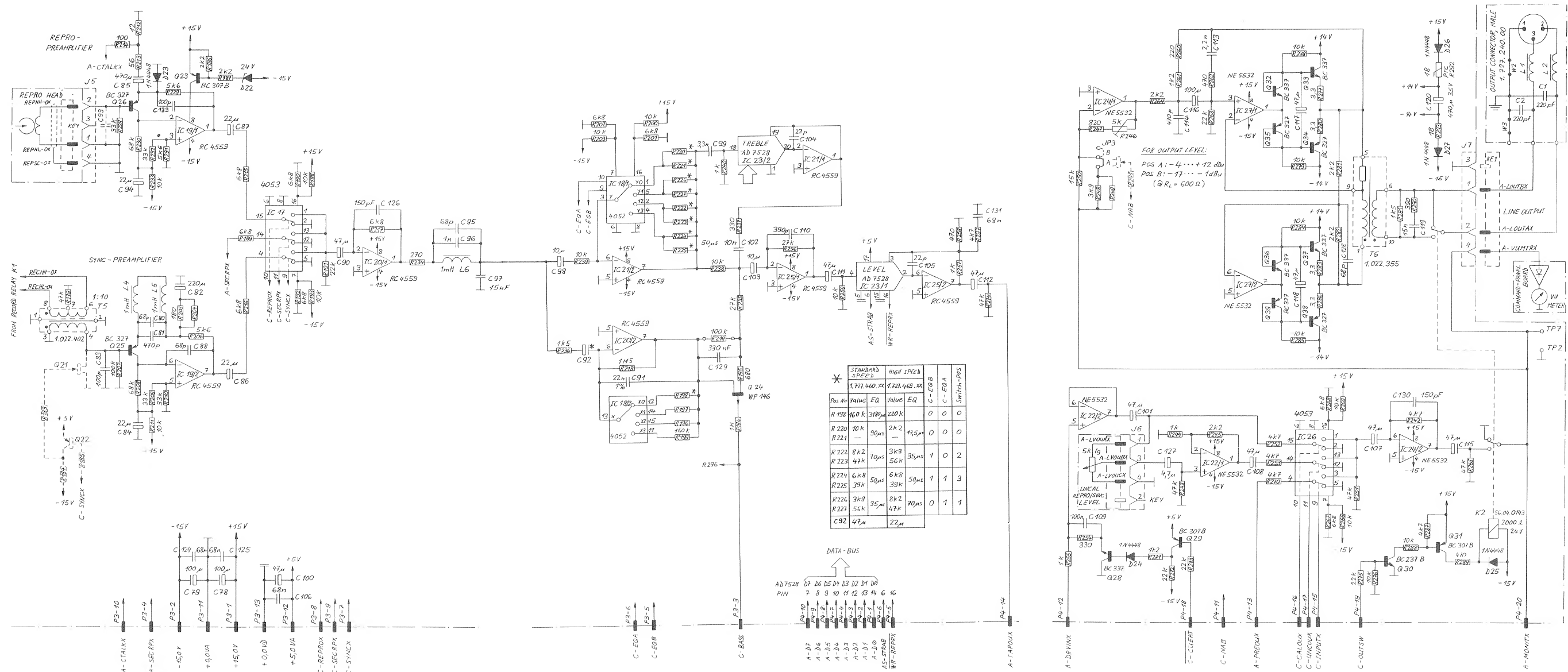


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|-----------|----------------------------|-----------------|
| 3.7.89 GP | A 807 GR 41/42             | PAGE 1 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD    | SC 1.727.460.83 |
|           | AUDIO ELECTRONICS BOARD HS | 1.727.469.81    |

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|-----------|----------------------------|-----------------|
| 3.7.89 GP | A807 GR 41/42              | PAGE 2 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD    | SC 1.727.460.83 |
|           | AUDIO ELECTRONICS BOARD HS | 1.727.469.81    |

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|-----------|----------------------------|-----------------|
| 3.7.89 GP | A 807 GR 41/42             | PAGE 3 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD    | SC 1.727.460.83 |
|           | AUDIO ELECTRONICS BOARD HS | 1.727.469.81    |

AUDIO ELECTRONICS BOARD 2VU 1.727.460.83  
-AUDIO ELECTRONICS BOARD 2VU HS 1.727.469.81

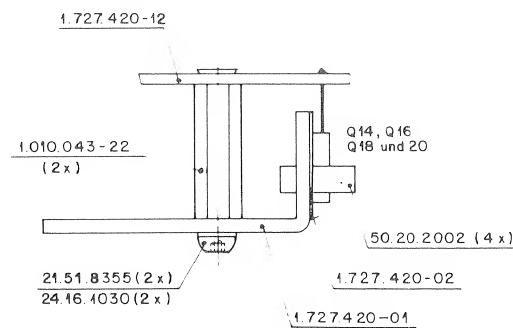
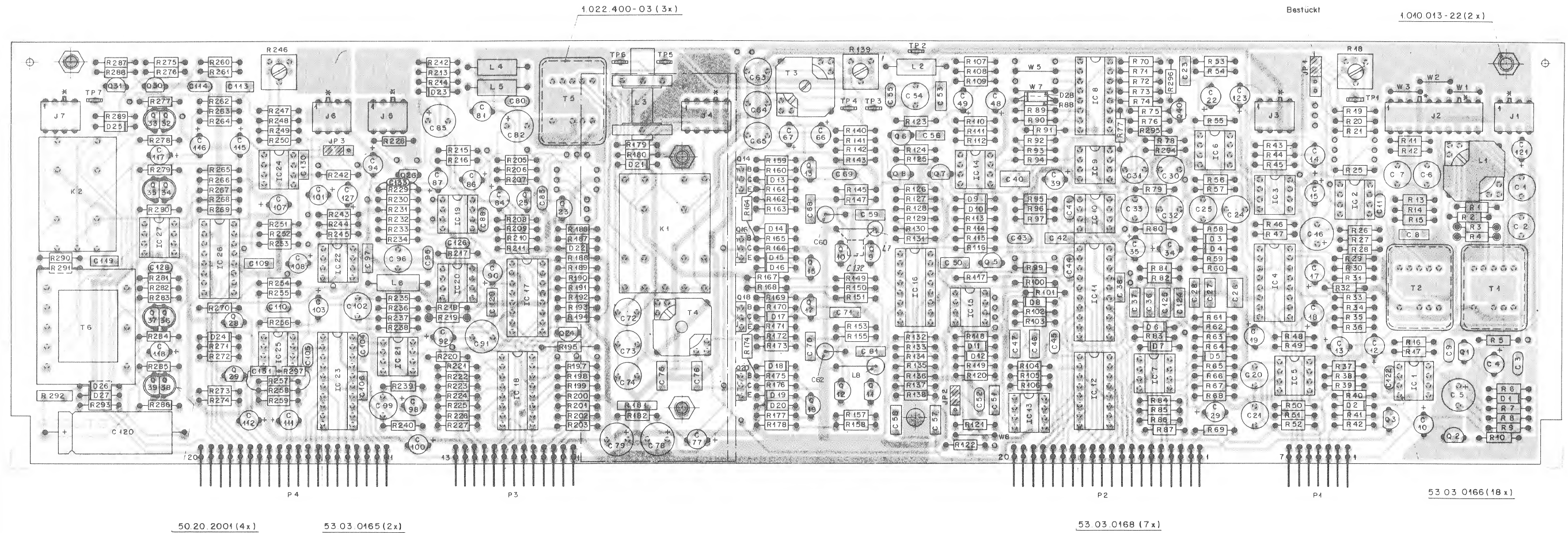


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|-----------|----------------------------|-----------------|
| 3.7.89 GP | A 807 GR 41/42             | PAGE 4 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD    | SC 1.727.460.83 |
|           | AUDIO ELECTRONICS BOARD HS | 1.727.469.81    |

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|-----------|----------------------------|-----------------|
| 3.7.89 GP | A 807 GR 41/42             | PAGE 5 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD    | SC 1.727.460.83 |
|           | AUDIO ELECTRONICS BOARD HS | 1.727.469.81    |

|           |                            |                 |
|-----------|----------------------------|-----------------|
| 3.7.89 GP | A 807 GR 41/42             | PAGE 6 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD    | SC 1.727.460.83 |
|           | AUDIO ELECTRONICS BOARD HS | 1.727.469.81    |

AUDIO ELECTRONICS BOARD 2VU 1.727.460.83  
-AUDIO ELECTRONICS BOARD 2VU HS 1.727.469.81



R3, R4, R219 auf Sockel 53.03.0228 (6x)

\* Codierung Schalldraht 64.01.0108  $\phi$  0,8 x 8 mm  
(muss 1 mm vorstehen)

Nr. Etikette 1.727.460-10  
Warnschild 43.01.0108

AUDIO ELECTRONICS BOARD 2VU 1.727.460.83

| IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE              | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.       | POS.NO.      | PART NO. | VALUE                      | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.       | POS.NO.    | PART NO.      | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF. |  |
|--------|------------|----------|-------|-----------------------------|--------|---------|------------|----------|--------------------|-----------------------------|--------|------------|--------------|----------|----------------------------|-----------------------------|--------|------------|------------|---------------|---------------|-----------------------------|--------|--|
| C....1 | 59.05.1102 | 1 nF     | 1K    | 50V PP                      |        | C...112 | 59.22.3470 | 47 uF    | -20%               | 10V EL                      |        | MP...8     | 1.727.420.01 | 1 pcw    | Heatsink                   | St                          | R...57 | 57.11.3272 | 2.7 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C....2 | 59.05.1102 | 1 nF     | 1K    | 50V PP                      |        | C...113 | 59.06.0222 | 2.2 uF   | 10%                | 50V PETP                    |        | MP...9     | 1.727.420.02 | 1 pcw    | Thermoplastic              | St                          | R...58 | 57.11.3272 | 2.7 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C....3 | 59.34.4271 | 270 pF   | 10%   | 50V Cer                     |        | C...114 | 59.34.5471 | 470 pF   | 10%                | 50V Cer                     |        | MP...10    | 1.727.460.10 | 1 pcw    | No. Label                  | St                          | R...59 | 57.11.3223 | 22 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C....4 | 59.22.0479 | 4.7 uF   | -20%  | 35V EL                      |        | C...115 | 59.22.3470 | 47 uF    | -20%               | 10V EL                      |        | MP...11    | 1.727.420.12 | 1 pcw    | Audio Electronics PCB      | St                          | R...60 | 57.11.3473 | 47 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C....5 | 59.22.2471 | 470 uF   | -20%  | 6.3V EL                     |        | C...116 | 59.22.3101 | 100 uF   | -20%               | 10V EL                      |        | MP...12    | 1.022.400.03 | 3 pcw    | Isolation T1, T2, T5       | St                          | R...61 | 57.11.3152 | 1.0 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C....6 | 59.05.1681 | 680 pF   | 1K    | 50V PP                      |        | C...117 | 59.22.3470 | 47 uF    | -20%               | 10V EL                      |        | MP...13    | 1.010.013.22 | 2 pcw    | Rivet Nut M3x3             |                             | R...62 | 57.11.3103 | 10 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C....7 | 59.05.1681 | 680 pF   | 1K    | 50V PP                      |        | C...118 | 59.22.3470 | 47 uF    | -20%               | 10V EL                      |        | MP...14    | 50.20.2002   | 4 pcw    | Clip, T0126                |                             | R...63 | 57.11.3154 | 150 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C....8 | 59.06.0103 | 10 nF    | 10%   | 50V PETP                    |        | C...119 | 59.06.0153 | 15 nF    | 10%                | 50V PETP                    |        | MP...15    | 43.01.0108   | 1 pcw    | ESE Warning Label          |                             | R...64 | 57.11.3102 | 1 kOhm     | 2K, 0.25W, MF |               |                             |        |  |
| C....9 | 59.34.4680 | 68 pF    | 10%   | 50V Cer                     |        | C...120 | 59.25.5471 | 470 uF   | -20%               | 35V EL                      |        | MP...16    | 53.03.0228   | 6 pcw    | 1-Pole Socket (R3,R4,R219) |                             | R...65 | 57.11.3104 | 100 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C...10 | 59.22.5220 | 22 uF    | -20%  | 25V EL                      |        | C...121 | 59.22.0479 | 4.7 uF   | -20%               | 35V EL                      |        |            |              |          |                            |                             | R...66 | 57.11.3243 | 24 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C...11 | 59.34.4151 | 150 pF   | 10%   | 50V Cer                     |        | C...122 | 59.34.4680 | 68 pF    | 10%                | 50V Cer                     |        | P...1      | 54.01.0223   | 7-Pole   | CIS Pin Strip              |                             | R...67 | 57.11.3302 | 3 kOhm     | 2K, 0.25W, MF |               |                             |        |  |
| C...12 | 59.22.5220 | 22 uF    | -20%  | 25V EL                      |        | C...123 | 59.22.0479 | 4.7 uF   | -20%               | 35V EL                      |        | P...2      | 54.01.0261   | 20-Pole  | CIS Pin Strip              |                             | R...68 | 57.11.3302 | 3 kOhm     | 2K, 0.25W, MF |               |                             |        |  |
| C...13 | 59.22.5220 | 22 uF    | -20%  | 25V EL                      |        | C...124 | 59.06.0683 | 68 nF    | 10%                | 50V PETP                    |        | P...3      | 54.01.0273   | 13-Pole  | CIS Pin Strip              |                             | R...69 | 57.11.3473 | 47 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C...14 | 59.22.3470 | 47 uF    | -20%  | 10V EL                      |        | C...125 | 59.06.0683 | 68 nF    | 10%                | 50V PETP                    |        | P...4      | 54.01.0261   | 20-Pole  | CIS Pin Strip              |                             | R...70 | 57.11.3472 | 4.7 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C...15 | 59.22.3470 | 47 uF    | -20%  | 10V EL                      |        | C...126 | 59.34.4151 | 150 pF   | 10%                | 50V Cer                     |        | Q...1      | 50.03.0625   | BC327    |                            | PNP                         |        | R...71     | 57.11.3682 | 6.8 kOhm      | 2K, 0.25W, MF |                             |        |  |
| C...16 | 59.22.2221 | 220 uF   | -20%  | 6.3V EL                     |        | C...127 | 59.22.0479 | 4.7 uF   | -20%               | 35V EL                      |        | Q...2      | 50.03.0340   | BC337-25 |                            | NPN                         |        | R...72     | 57.11.3473 | 47 kOhm       | 2K, 0.25W, MF |                             |        |  |
| C...17 | 59.22.3470 | 47 uF    | -20%  | 10V EL                      |        | C...128 | 59.34.4680 | 68 pF    | 10%                | 50V Cer                     |        | Q...3      | 50.03.0515   | BC307    |                            | PNP                         |        | R...73     | 57.11.3473 | 47 kOhm       | 2K, 0.25W, MF |                             |        |  |
| C...18 | 59.22.3470 | 47 uF    | -20%  | 10V EL                      |        | C...129 | 59.06.5334 | 330 nF   | 5%                 | 50V PETP                    |        | Q...4      | 50.03.0515   | BC307    |                            | PNP                         |        | R...74     | 57.11.3472 | 4.7 kOhm      | 2K, 0.25W, MF |                             |        |  |
| C...19 | 59.22.3470 | 47 uF    | -20%  | 10V EL                      |        | C...130 | 59.34.4101 | 150 pF   | 10%                | 50V Cer                     |        | Q...5      | 50.03.0515   | BC307B   |                            | PNP                         |        | R...75     | 57.11.3562 | 5.6 kOhm      | 2K, 0.25W, MF |                             |        |  |
| C...20 | 59.05.2102 | 1 nF     | 2.5%  | 50V PP                      |        | C...131 | 59.06.0683 | 68 nF    | 10%                | 50V PETP                    |        | Q...6      | 50.03.0530   | J112     |                            | FET                         |        | R...76     | 57.11.3562 | 5.6 kOhm      | 2K, 0.25W, MF |                             |        |  |
| C...21 | 59.05.2102 | 1 nF     | 2.5%  | 50V PP                      |        | C...132 | 59.34.4101 | 100 pF   | 5%                 | 50V Cer                     |        | Q...7      | 50.03.0436   | BC237B   |                            | NPN                         |        | R...77     | 57.11.3103 | 10 kOhm       | 2K, 0.25W, MF |                             |        |  |
| C...22 | 59.22.6100 | 10 uF    | -20%  | 35V EL                      |        | C...133 | 59.34.4101 | 100 pF   | 5%                 | 50V Cer                     |        | Q...8      | 50.03.0519   | BC307B   |                            | PNP                         |        | R...78     | 57.11.3472 | 4.7 kOhm      | 2K, 0.25W, MF |                             |        |  |
| C...23 | 59.06.5682 | 6.8 nF   | 5%    | 50V PETP                    |        |         |            |          |                    |                             | Q...9  | 50.03.0436 | BC237B       |          | PNP                        |                             | R...79 | 57.11.3472 | 4.7 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C...24 | 59.05.2102 | 1 nF     | 2.5%  | 50V PP                      |        | D....1  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...10 | 50.03.0436 | BC237B       |          | PNP                        |                             | R...80 | 57.11.3681 | 680 Ohm    | 2K, 0.25W, MF |               |                             |        |  |
| C...25 | 59.05.2102 | 1 nF     | 2.5%  | 50V PP                      |        | D....2  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...11 | 50.03.0436 | BC237B       |          | PNP                        |                             | R...81 | 57.11.3473 | 47 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C...26 | 59.06.0105 | 1 uF     | 5%    | 50V PETP                    |        | D....3  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...12 | 50.03.0436 | BC237B       |          | PNP                        |                             | R...82 | 57.11.3473 | 47 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C...27 | 59.06.0473 | 47 nF    | 10%   | 50V PETP                    |        | D....4  | 50.04.1102 | 6.8 V    | 5K, 0.4W           | Zener                       |        | Q...13     | 50.03.0436   | BC237B   |                            | PNP                         |        | R...83     | 57.11.3152 | 1.5 kOhm      | 2K, 0.25W, MF |                             |        |  |
| C...28 | 59.06.0473 | 47 nF    | 10%   | 50V PETP                    |        | D....5  | 50.04.1106 | 2.7 V    | 5K, 0.4W           | Zener                       |        | Q...14     | 50.03.0515   | BC307B   |                            | PNP                         |        | R...84     | 57.11.3154 | 150 kOhm      | 2K, 0.25W, MF |                             |        |  |
| C...29 | 59.22.3470 | 47 uF    | -20%  | 10V EL                      |        | D....6  | 50.04.1112 | 5.1 V    | 5K, 0.4W           | Zener                       |        | Q...15     | 50.03.0495   | BD135-16 |                            | NPN                         |        | R...85     | 57.11.3102 | 1 kOhm        | 2K, 0.25W, MF |                             |        |  |
| C...30 | 59.05.1332 | 3.3 nF   | 1K    | 50V PP                      |        | D....7  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...16 | 50.03.0436 | BC237B       |          | PNP                        |                             | R...86 | 57.11.3104 | 100 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C...31 | 59.05.1332 | 3.3 nF   | 1K    | 50V PP                      |        | D....8  | 50.04.1105 | 2.7 V    | 5K, 0.4W           | Zener                       |        | Q...17     | 50.03.0510   | BD136-16 |                            | PNP                         |        | R...87     | 57.11.3243 | 24 kOhm       | 2K, 0.25W, MF |                             |        |  |
| C...32 | 59.05.2102 | 1 nF     | 2.5%  | 50V PP                      |        | D....9  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...18 | 50.03.0515 | BC307B       |          | PNP                        |                             | R...88 | 57.11.3103 | 10 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C...33 | 59.05.2102 | 1 nF     | 2.5%  | 50V PP                      |        | IC...0  | 50.07.0024 | NC 14052 | CMOS Analog Switch | Not                         | Q...19 | 50.03.0495 | BD135-16     |          | NPN                        |                             | R...89 | 57.11.3562 | 5.6 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C...34 | 59.22.0479 | 4.7 uF   | -20%  | 35V EL                      |        | D...11  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...20 | 50.03.0436 | BC237B       |          | PNP                        |                             | R...90 | 57.11.3103 | 10 kOhm    | 2K, 0.25W, MF |               |                             |        |  |
| C...35 | 59.22.0479 | 4.7 uF   | -20%  | 35V EL                      |        | D...12  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...21 | 50.03.0510 | BD136-16     |          | PNP                        |                             | R...91 | 57.11.3682 | 6.8 kOhm   | 2K, 0.25W, MF |               |                             |        |  |
| C...36 | 59.06.0473 | 47 nF    | 10%   | 50V PETP                    |        | D...13  | 50.04.0125 | IN4448   | 50V SI             |                             | Q...22 | 50.03.0510 | BD136-16     |          | PNP                        |                             | R...92 | 57.11.3683 | 68 kOhm    | 2K, 0.25W, MF |               |                             |        |  |



## AUDIO ELECTRONICS BOARD 2VU 1.727.460.83

| IND.    | POS.NO.    | PART NO. | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|---------------|-----------------------------|--------|---------|--------------|----------|-------------------|-----------------------------|--------|
| R...174 | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF |                             |        | R...285 | 57.11.3103   | 10 kOhm  | 2K, 0.25W, MF     |                             |        |
| R...175 | 57.11.3470 | 47 Ohm   | 2K, 0.25W, MF |                             |        | R...286 | 57.11.3339   | 3.3 Ohm  | 2K, 0.25W, MF     |                             |        |
| R...176 | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF |                             |        | R...287 | 57.11.3472   | 4.7 kOhm | 2K, 0.25W, MF     |                             |        |
| R...177 | 57.11.3680 | 68 Ohm   | 2K, 0.25W, MF |                             |        | R...288 | 57.11.3103   | 10 kOhm  | 2K, 0.25W, MF     |                             |        |
| R...178 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        | R...289 | 57.11.3471   | 470 Ohm  | 2K, 0.25W, MF     |                             |        |
| R...179 | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF |                             |        | R...290 | 57.11.3391   | 390 Ohm  | 2K, 0.25W, MF     |                             |        |
| R...180 | 57.11.3100 | 10 Ohm   | 2K, 0.25W, MF |                             |        | R...291 | 57.11.3152   | 1.5 kOhm | 2K, 0.25W, MF     |                             |        |
| R...181 | 57.99.0209 | 5.6 Ohm  | PTC           |                             |        | R...292 | 57.92.1151   | 18 Ohm   | 150mA, PTC        |                             |        |
| R...182 | 57.11.3569 | 5.6 Ohm  | 2K, 0.25W, MF |                             |        | R...293 | 57.11.3180   | 18 Ohm   | 2K, 0.25W, MF     |                             |        |
| R...183 |            |          | not used      |                             |        | R...294 | 57.11.3470   | 47 Ohm   | 2K, 0.25W, MF     |                             |        |
| R...184 |            |          | not used      |                             |        | R...295 | 57.11.3223   | 22 kOhm  | 2K, 0.25W, MF     |                             |        |
| R...185 |            |          | not used      |                             |        | R...296 | 57.11.3105   | 1 MOhm   | 2K, 0.25W, MF     |                             |        |
| R...186 | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF |                             |        | R...297 | 57.11.3472   | 4.7 kOhm | 2K, 0.25W, MF     |                             |        |
| R...187 | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF |                             |        | T....1  | 1.022.400.00 | 1:4      | Mic Input Trafo   |                             | St     |
| R...188 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        | T....2  | 1.022.451.00 | 1:0.62   | Line Input Trafo  |                             | St     |
| R...189 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        | T....3  | 1.022.271.00 |          | Erase Trafo       |                             | St     |
| R...190 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        | T....4  | 1.022.272.00 |          | Bias Trafo        |                             | St     |
| R...191 | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF |                             |        | T....5  | 1.022.402.00 | 1:10     | Sync Trafo        |                             | St     |
| R...192 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        | T....6  | 1.022.355.00 |          | Line Output Trafo |                             | St     |
| R...193 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |         |              |          |                   |                             |        |
| R...194 | 57.11.3105 | 1 MOhm   | 2K, 0.25W, MF |                             |        | TP...1  | 54.02.0320   |          | Plug 2.8x0.8      |                             | AMP    |
| R...195 | 57.11.3681 | 680 Ohm  | 2K, 0.25W, MF |                             |        | TP...2  | 54.02.0320   |          | Plug 2.8x0.8      |                             | AMP    |
| R...196 |            |          | not used      |                             |        | TP...3  | 54.02.0320   |          | Plug 2.8x0.8      |                             | AMP    |
| R...197 |            |          | not used      |                             |        | TP...4  | 54.02.0320   |          | Plug 2.8x0.8      |                             | AMP    |
| R...198 | 57.11.3164 | 160 kOhm | 2K, 0.25W, MF |                             |        | TP...5  | 54.02.0320   |          | Plug 2.8x0.8      |                             | AMP    |
| R...199 | 57.11.3164 | 160 kOhm | 2K, 0.25W, MF |                             |        | TP...6  | 54.02.0320   |          | Plug 2.8x0.8      |                             | AMP    |
| R...200 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        | TP...7  | 54.02.0320   |          | Plug 2.8x0.8      |                             | AMP    |
| R...201 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        | W....1  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...202 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        | W....2  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...203 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        | W....3  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...204 |            |          | not used      |                             |        | W....4  |              |          | not used          |                             |        |
| R...205 | 57.11.3181 | 180 Ohm  | 2K, 0.25W, MF |                             |        | W....5  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...206 | 57.11.3562 | 5.6 kOhm | 2K, 0.25W, MF |                             |        | W....6  |              |          | not used          |                             |        |
| R...207 | 57.11.3104 | 100 kOhm | 2K, 0.25W, MF |                             |        | W....7  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...208 | 57.11.3683 | 68 kOhm  | 2K, 0.25W, MF |                             |        | W....8  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...209 | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF |                             |        |         |              |          |                   |                             |        |
| R...210 | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF |                             |        |         |              |          |                   |                             |        |

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| IND.    | POS.NO.    | PART NO. | VALUE                      | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|----------------------------|-----------------------------|--------|----------|------------|----------|-----------|-----------------------------|--------|
| R...211 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...1  | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...212 | 57.11.3120 | 12 Ohm   | 2K, 0.25W, MF              |                             |        | XIC...2  | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...213 | 57.11.3560 | 56 Ohm   | 2K, 0.25W, MF              |                             |        | XIC...3  | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| R...214 | 57.11.3101 | 100 Ohm  | 2K, 0.25W, MF              |                             |        | XIC...4  | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...215 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | XIC...5  | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...216 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | XIC...6  | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...217 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | XIC...7  | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...218 | 57.11.5155 | 1.5 MOhm | 2K, 0.25W, MF              |                             |        | XIC...8  | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| R...219 | 57.11.3104 | 100 kOhm | 2K, 0.25W, MF, with socket |                             |        | XIC...9  | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...220 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...10 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...221 |            |          | not used                   |                             |        | XIC...11 | 53.03.0165 | 20-Pole  | IC Socket |                             |        |
| R...222 | 57.11.3822 | 8.2 kOhm | 2K, 0.25W, MF              |                             |        | XIC...12 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| R...223 | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...13 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...224 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | XIC...14 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...225 | 57.11.3393 | 39 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...15 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...226 | 57.11.3392 | 3.9 kOhm | 2K, 0.25W, MF              |                             |        | XIC...16 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| R...227 | 57.11.3563 | 56 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...17 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| R...228 | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...18 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| R...229 | 57.11.3562 | 5.6 kOhm | 2K, 0.25W, MF              |                             |        | XIC...19 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...230 | 57.11.3683 | 68 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...20 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...231 | 57.11.3562 | 5.6 kOhm | 2K, 0.25W, MF              |                             |        | XIC...21 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...232 | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...22 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...233 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...23 | 53.03.0165 | 20-Pole  | IC Socket |                             |        |
| R...234 | 57.11.3271 | 270 Ohm  | 2 K 0.25W, MF              |                             |        | XIC...24 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...235 | 57.11.3273 | 27 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...25 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...236 | 57.11.3152 | 1.5 kOhm | 2K, 0.25W, MF              |                             |        | XIC...26 | 53.03.0168 | 16-Pole  | IC Socket |                             |        |
| R...237 | 57.11.3331 | 330 Ohm  | 2K, 0.25W, MF              |                             |        | XIC...27 | 53.03.0166 | 8-Pole   | IC Socket |                             |        |
| R...238 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |
| R...239 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |
| R...240 | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |
| R...241 |            |          | not used                   |                             |        |          |            |          |           |                             |        |
| R...242 | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |
| R...243 | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |
| R...244 | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |
| R...245 | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |
| R...246 | 58.01.8502 | 5 kOhm   | 10%, 0.5 W, PMS            |                             |        |          |            |          |           |                             |        |
| R...247 | 57.11.3821 | 820 Ohm  | 2K, 0.25W, MF              |                             |        |          |            |          |           |                             |        |

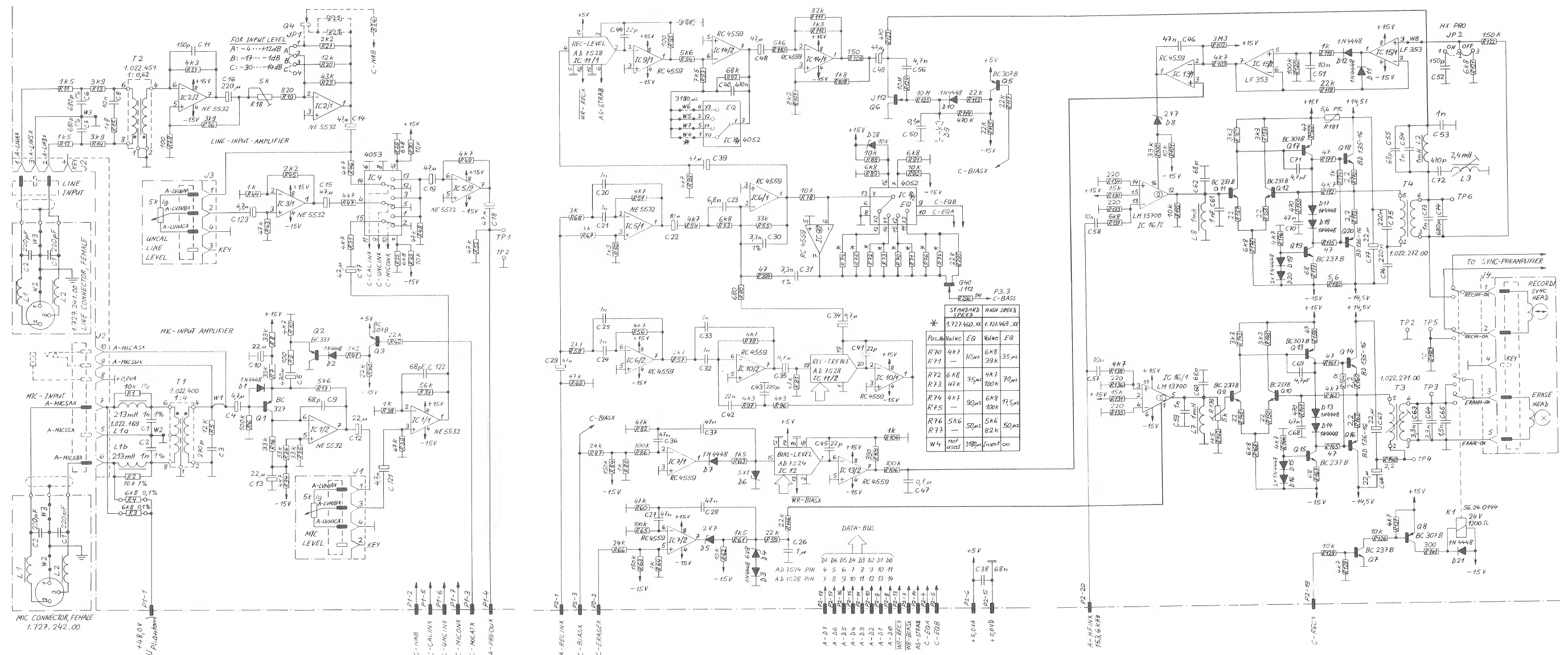
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| IND.    | POS.NO.    | PART NO. | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.       | PART NO. | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|---------------|-----------------------------|--------|--|---------------|----------|------------|-----------------------------|--------|
| R...248 | 57.11.3392 | 3.9 kOhm | 2K, 0.25W, MF |                             |        | Note 1 Variable Phantom Supply                         |               |          |            |                             |        |
| R...249 |            |          | not used      |                             |        | U (V) : POS.NO. : PART NO. : VALUE                     |               |          |            |                             |        |
| R...250 | 57.11.3153 | 15 kOhm  | 2K, 0.25W, MF |                             |        | 48   | : R 3 / R 4 : | 57990250 | : 6.8 kOhm | 0.1 X 0.25 W MF             |        |
| R...251 | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF |                             |        | 24   | : R 3 / R 4 : |          | : 4.3 kOhm | 0.1 X 0.25 W MF             |        |
| R...252 | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF |                             |        | 12   | : R 3 / R 4 : | 57990199 | : 680 Ohm  | 0.1 X 0.25 W MF             |        |
| R...253 | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF |                             |        | Cer = Ceramic EL = Electrolytic PETP = Polyester       |               |          |            |                             |        |
| R...254 | 57.11.3331 | 330 Ohm  | 2K, 0.25W, MF |                             |        | PP = Polypropylen MF = Metal Film SI = Silicon         |               |          |            |                             |        |
| R...255 | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF |                             |        | MANUFACTURER: ADI = Analog Devices Inc. Not = Motorola |               |          |            |                             |        |
| R...256 | 57.11.3273 | 27 kOhm  | 2K, 0.25W, MF |                             |        | NS = National Semiconductors Ra = Raytheon             |               |          |            |                             |        |
| R...257 | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF |                             |        | Sig = Signetics St = Studer                            |               |          |            |                             |        |
| R...258 | 57.11.3471 | 470 Ohm  | 2K, 0.25W, MF |                             |        | ORIG 89/07/03  |               |          |            |                             |        |
| R...259 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...260 | 57.11.3221 | 220 Ohm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...261 | 57.11.3122 | 1.2 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...262 | 57.11.3471 | 470 Ohm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...263 | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...264 | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...265 | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...266 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...267 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...268 | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...269 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...270 | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...271 | 57.11.3122 | 1.2 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...272 | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...273 | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...274 | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...275 | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...276 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...277 | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...278 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...279 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...280 | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...281 | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...282 | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...283 | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |
| R...284 | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF |                             |        |  |               |          |            |                             |        |



**AUDIO ELECTRONICS BOARD 2VU 1.727.460.84**  
**-AUDIO ELECTRONICS BOARD 2VU HS 1.727.469.82**

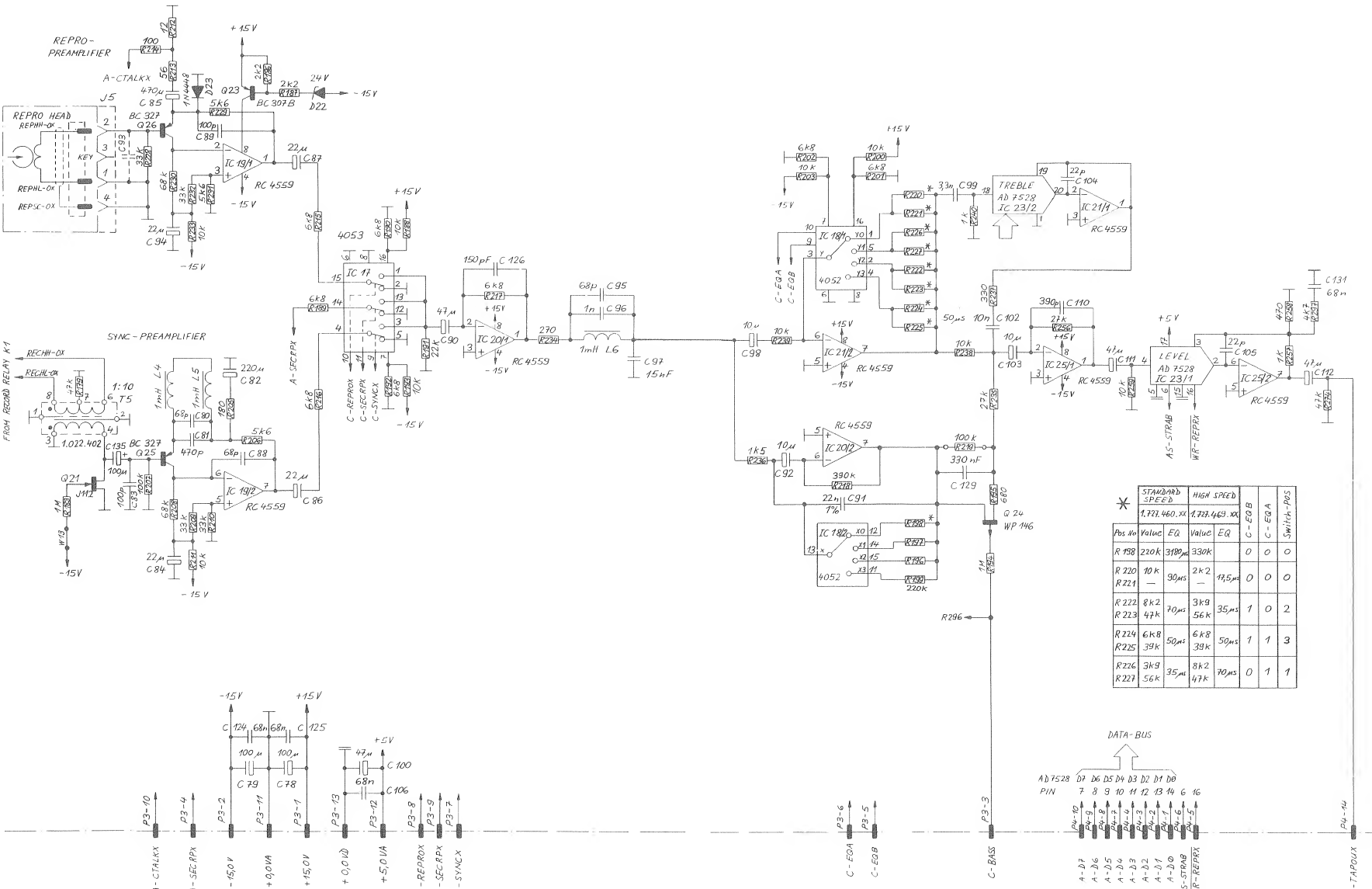


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| STUDER      | AUDIO ELECTRONICS BOARD    | SC 1.727.460.84 |
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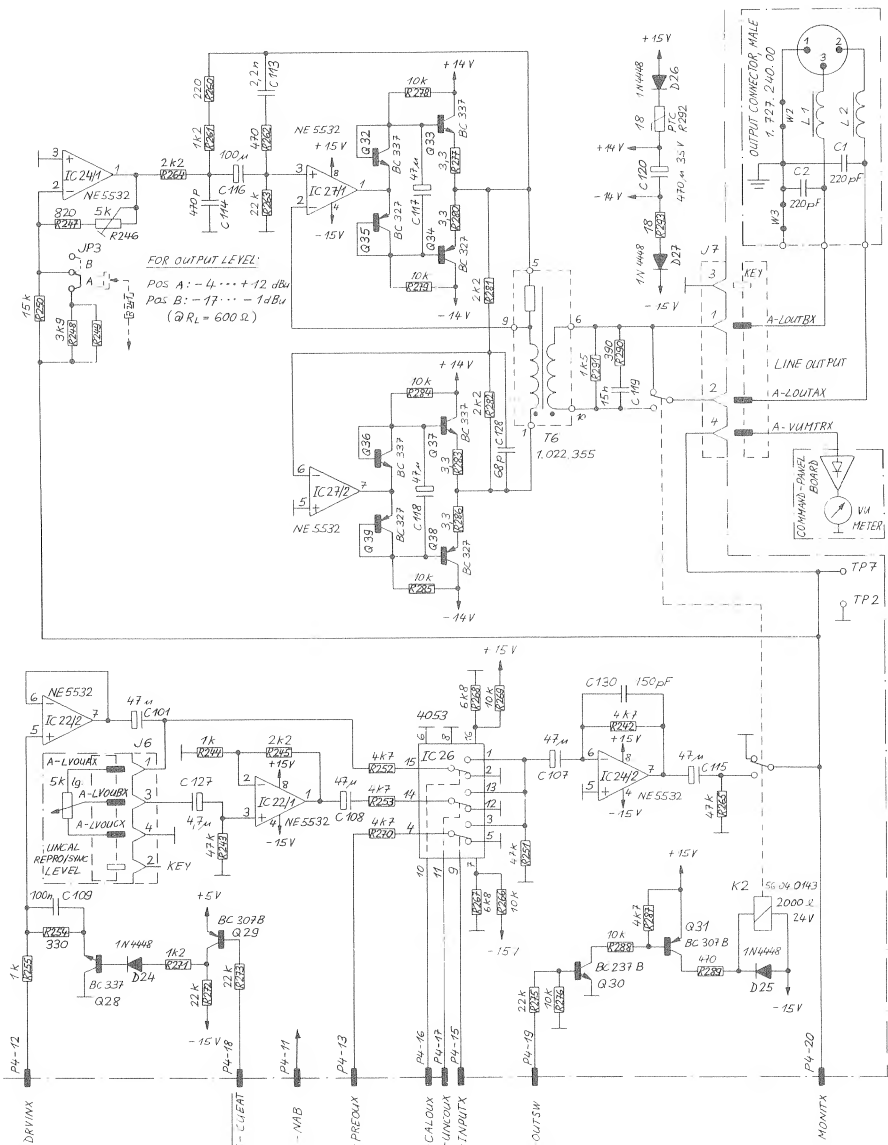
AUDIO ELECTRONICS BOARD 2VU 1.727.460.84  
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| STUDER     | AUDIO ELECTRONICS BOARD    | SC 1.727.460.84 |
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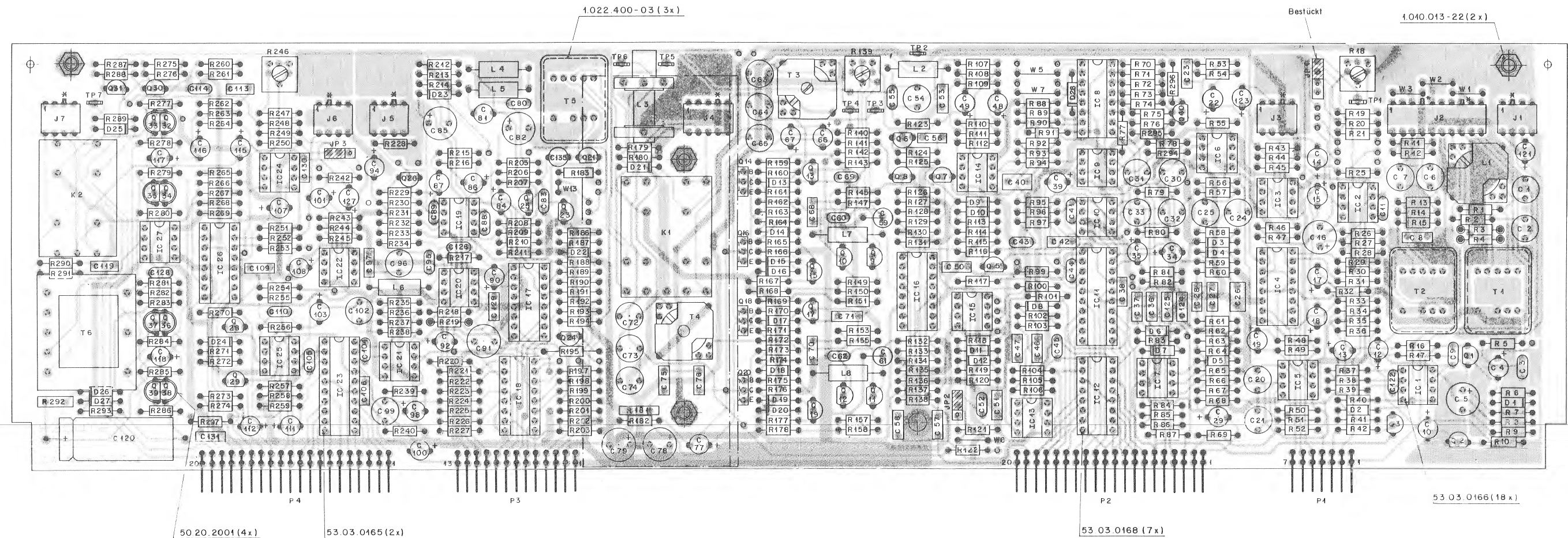
|       |      | STANDARD SPEED |       | HIGH SPEED |    |       |       |
|-------|------|----------------|-------|------------|----|-------|-------|
|       |      | Value          | EQ    | Value      | EQ |       |       |
| R 198 | 220k | 310k           | 330k  | 0          | 0  | C-EGB | C-EGB |
| R 220 | 10k  | 2k             | 14.5k | 0          | 0  | C-EGB | C-EGB |
| R 221 | —    | 30ms           | —     | —          | —  | C-EGB | C-EGB |
| R 222 | 8k2  | 70ms           | 3k8   | 35ms       | 1  | 0     | 2     |
| R 223 | 47k  | —              | 56k   | —          | —  | —     | —     |
| R 224 | 6k8  | 50ms           | 39k   | 50ms       | 1  | 1     | 3     |
| R 225 | 39k  | —              | —     | —          | —  | —     | —     |
| R 226 | 3k9  | 8k2            | 70ms  | 0          | 1  | 1     | 1     |
| R 227 | 56k  | 47k            | —     | —          | —  | —     | —     |

|            |                            |                 |
|------------|----------------------------|-----------------|
| 22.3.90 GP | A 807 GR 41/42             | PAGE 5 OF 6     |
| STUDER     | AUDIO ELECTRONICS BOARD    | SC 1.727.460.84 |
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-AUDIO ELECTRONICS BOARD 2VU HS 1.727.469.82

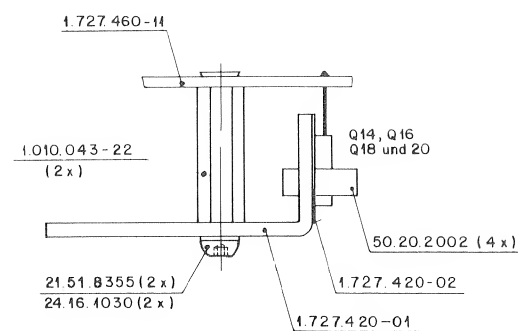


R18 = INPUT LEVEL ADJUSTMENT  
R139 = ERASE VOLTAGE ADJUSTMENT  
R246 = OUTPUT LEVEL ADJUSTMENT  
L3 = BIAS TRAP  
T3 = ERASE HEAD CIRCUIT

JP1 INPUT LEVEL SENSITIVITY  
JP2 HX PRO: A = ON, B = OFF  
JP3 OUTPUT LEVEL SENSITIVITY

TP1 RECORD AMPLIFIER SIGNAL (0.775 V = 0 VU)  
TP2 0.0 V  
TP3 VOLTAGE ON ERASE HEAD  
TP4 PRIMARY CURRENT ON ERASE TRANSFORMER  
TP5 BIAS CURRENT ON 10 Ω  
TP6 REJECTOR FILTER ADJUSTMENT  
TP7 VU METER SIGNAL (0.775 V = 0 VU)

FACTORY STANDARD SETTING



R3, R4, R219 auf Sockel 53.03.0228 (6x)

\* Codierung: Schalldraht 64.01.0108 Ø 0,8 x 8 mm  
(muss 1 mm vorstehen)

Nr. Etikette 1.727.460-10  
Warnschild 43.01.0108

STUDER A807 MKII

AUDIO ELECTRONICS BOARD 2VU 1.727.460.84

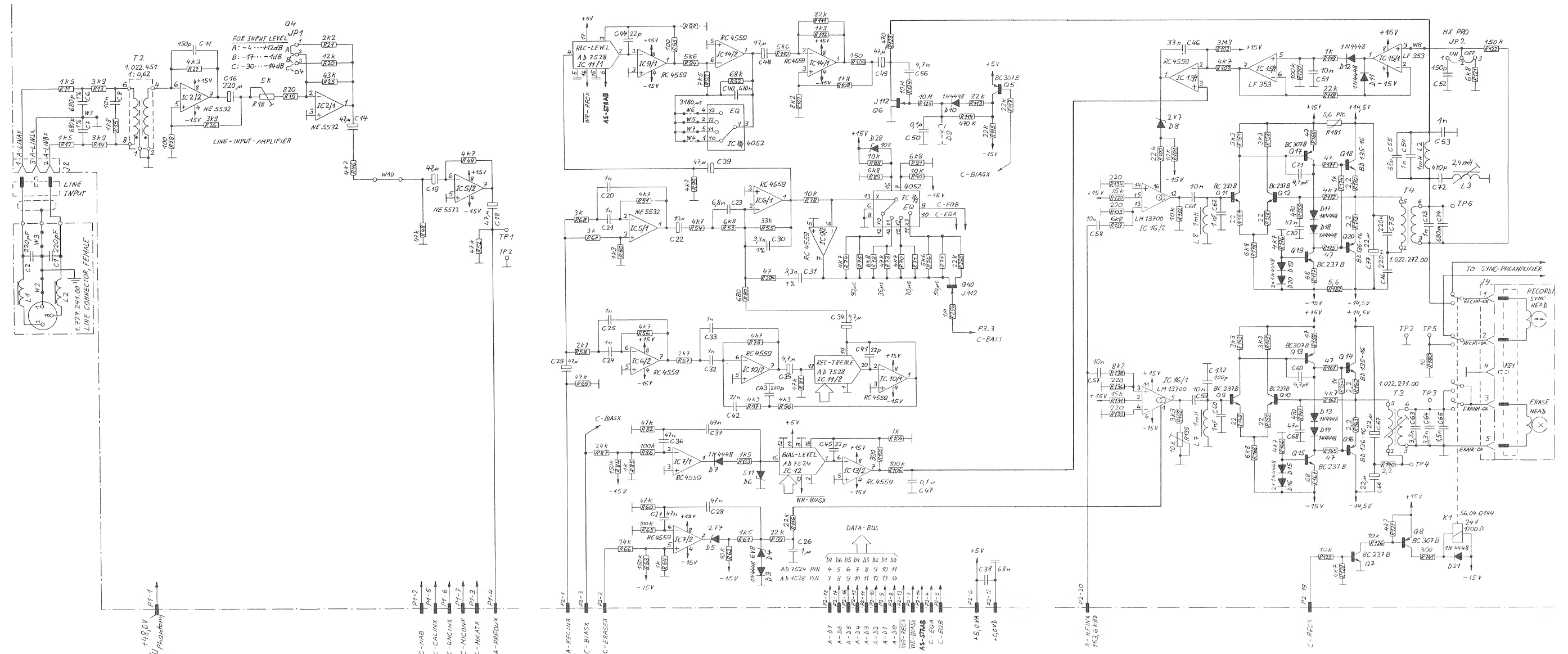
|  | POS.NO. | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. |  | POS.NO. | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. |  | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |        | POS.NO.    | PART NO.   | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|---------|------------|--------|-----------------------------|--------|--|---------|------------|--------|-----------------------------|--------|--|---------|--------------|----------|-----------------------------|--------|--------|------------|------------|---------------|-----------------------------|--------|
|  | C....1  | 59.05.1102 | 1 nF   | 1X 50V PP                   |        |  | C...112 | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | MP...9  | 1.727.420.02 | 1 pce    | Thermoplastic               | St     |        | R....58    | 57.11.3272 | 2.7 kOhm      | 2X, 0.25W, MF               |        |
|  | C....2  | 59.05.1102 | 1 nF   | 1X 50V PP                   |        |  | C...113 | 59.06.0222 | 2.2 nF | 10X 50V PETF                |        |  | MP...10 | 1.727.460.10 | 1 pce    | No. Label                   | FET    |        | R....59    | 57.11.3223 | 22 kOhm       | 2X, 0.25W, MF               |        |
|  | C....3  | 59.34.4271 | 270 pF | 10X 50V Cer                 |        |  | C...114 | 59.34.5471 | 470 pF | 10X 50V Cer                 |        |  | MP...11 | 1.727.460.11 | 1 pce    | Audio Electronics PCB       | St     |        | R....60    | 57.11.3473 | 47 kOhm       | 2X, 0.25W, MF               |        |
|  | C....4  | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        |  | C...115 | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | MP...12 | 1.022.400.03 | 3 pce    | Isolation Tl, T2, T5        | St     |        | R....61    | 57.11.3152 | 1.5 kOhm      | 2X, 0.25W, MF               |        |
|  | C....5  | 59.22.2471 | 470 uF | -20X 6.3V EL                |        |  | C...116 | 59.22.3101 | 100 uF | -20X 10V EL                 |        |  | MP...13 | 1.010.013.22 | 2 pce    | Rivet Nut M3x3              |        |        | R....62    | 57.11.3103 | 10 kOhm       | 2X, 0.25W, MF               |        |
|  | C....6  | 59.05.1681 | 680 pF | 1X 50V PP                   |        |  | C...117 | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | MP...14 | 50.20.2002   | 4 pce    | Clip, T0126                 |        |        | R....63    | 57.11.3154 | 150 kOhm      | 2X, 0.25W, MF               |        |
|  | C....7  | 59.05.1681 | 680 pF | 1X 50V PP                   |        |  | C...118 | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | MP...15 | 43.01.0108   | 1 pce    | ESE Warning Label           |        |        | R....64    | 57.11.3102 | 1 kOhm        | 2X, 0.25W, MF               |        |
|  | C....8  | 59.06.0103 | 10 nF  | 10X 50V PETF                |        |  | C...119 | 59.06.0153 | 15 nF  | 10X 50V Cer                 |        |  | MP...16 | 53.03.0228   | 6 pce    | 1-Pole Socket (R3,R4,R219)  |        |        | R....65    | 57.11.3104 | 100 kOhm      | 2X, 0.25W, MF               |        |
|  | C....9  | 59.34.4680 | 68 pF  | 10X 50V Cer                 |        |  | C...120 | 59.25.5471 | 470 uF | -20X 35V EL                 |        |  |         |              |          |                             |        |        | R....66    | 57.11.3243 | 24 kOhm       | 2X, 0.25W, MF               |        |
|  | C...10  | 59.22.5220 | 22 uF  | -20X 25V EL                 |        |  | C...121 | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        |  | P....1  | 54.01.0223   | 7-Pole   | CIS Pin Strip               |        |        | R....67    | 57.11.3302 | 3 kOhm        | 2X, 0.25W, MF               |        |
|  | C...11  | 59.34.4151 | 150 pF | 10X 50V Cer                 |        |  | C...122 | 59.34.4680 | 68 pF  | 10X 50V Cer                 |        |  | P....2  | 54.01.0261   | 20-Pole  | CIS Pin Strip               |        |        | R....68    | 57.11.3302 | 3 kOhm        | 2X, 0.25W, MF               |        |
|  | C...12  | 59.22.5220 | 22 uF  | -20X 25V EL                 |        |  | C...123 | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        |  | P....3  | 54.01.0273   | 13-Pole  | CIS Pin Strip               |        |        | R....69    | 57.11.3473 | 47 kOhm       | 2X, 0.25W, MF               |        |
|  | C...13  | 59.22.5220 | 22 uF  | -20X 25V EL                 |        |  | C...124 | 59.06.0683 | 68 nF  | 10X 50V PETF                |        |  | P....4  | 54.01.0261   | 20-Pole  | CIS Pin Strip               |        |        | R....70    | 57.11.3472 | 4.7 kOhm      | 2X, 0.25W, MF               |        |
|  | C...14  | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | C...125 | 59.06.0683 | 68 nF  | 10X 50V PETF                |        |  | Q....1  | 50.03.0625   | BC327    | PNP                         |        |        | R...71     |            |               | not used                    |        |
|  | C...15  | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | C...126 | 59.34.4151 | 150 pF | 10X 50V Cer                 |        |  | Q....2  | 50.03.0340   | BC337-25 | NPN                         |        |        | R...72     | 57.11.3682 | 6.8 kOhm      | 2X, 0.25W, MF               |        |
|  | C...16  | 59.22.2221 | 220 uF | -20X 6.3V EL                |        |  | C...127 | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        |  | Q....3  | 50.03.0515   | BC307    | PNP                         |        |        | R...73     | 57.11.3473 | 47 kOhm       | 2X, 0.25W, MF               |        |
|  | C...17  | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | C...128 | 59.34.4680 | 68 pF  | 10X 50V Cer                 |        |  | Q....4  | 50.03.0515   | BC307B   | BC557B, BC560B              | PNP    |        | R...74     | 57.11.3472 | 4.7 kOhm      | 2X, 0.25W, MF               |        |
|  | C...18  | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | C...129 | 59.06.5334 | 330 nF | 5X 50V Cer                  |        |  | Q....5  | 50.03.0515   | BC307B   | BC557B, BC560B              | PNP    |        | R...75     |            |               | not used                    |        |
|  | C...19  | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | C...130 | 59.34.4151 | 150 pF | 10X 50V Cer                 |        |  | Q....6  | 50.03.0350   | J112     | FET                         | Not    |        | R...76     | 57.11.3562 | 5.6 kOhm      | 2X, 0.25W, MF               |        |
|  | C...20  | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        |  | C...131 | 59.06.0683 | 68 nF  | 10X 50V PETF                |        |  | Q....7  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...77     |            |               | not used                    |        |
|  | C...21  | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        |  | C...135 | 59.22.3101 | 100 uF | -20X 10V EL                 |        |  | Q....8  | 50.03.0515   | BC307B   | BC557B, BC560B              | PNP    |        | R...78     | 57.11.3103 | 10 kOhm       | 2X, 0.25W, MF               |        |
|  | C...22  | 59.22.6100 | 10 uF  | -20X 35V EL                 |        |  | D....1  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q....9  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...79     | 57.11.3472 | 4.7 kOhm      | 2X, 0.25W, MF               |        |
|  | C...23  | 59.06.5682 | 6.8 nF | 5X 50V PETF                 |        |  | D....2  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...10  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...80     | 57.11.3681 | 680 kOhm      | 2X, 0.25W, MF               |        |
|  | C...24  | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        |  | D....3  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...11  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...81     | 57.11.3473 | 47 kOhm       | 2X, 0.25W, MF               |        |
|  | C...25  | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        |  | D....4  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...12  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...82     | 57.11.3473 | 47 kOhm       | 2X, 0.25W, MF               |        |
|  | C...26  | 59.06.0105 | 1 uF   | 10X 50V PETF                |        |  | D....5  | 50.04.1106 | 2.7 V  | 5X, 0.4W Zener              |        |  | Q...13  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...83     | 57.11.3152 | 1.5 kOhm      | 2X, 0.25W, MF               |        |
|  | C...27  | 59.06.0473 | 47 nF  | 10X 50V PETF                |        |  | D....6  | 50.04.1112 | 5.1 V  | 5X, 0.4W Zener              |        |  | Q...14  | 50.03.0515   | BC307B   | BC557B, BC560B              | PNP    |        | R...84     | 57.11.3154 | 150 kOhm      | 2X, 0.25W, MF               |        |
|  | C...28  | 59.06.0473 | 47 nF  | 10X 50V PETF                |        |  | D....7  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...15  | 50.03.0495   | BD135-16 | NPN                         |        | R...85 | 57.11.3102 | 1 kOhm     | 2X, 0.25W, MF |                             |        |
|  | C...29  | 59.22.3470 | 47 uF  | -20X 10V EL                 |        |  | D....8  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...16  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...86     | 57.11.3104 | 100 kOhm      | 2X, 0.25W, MF               |        |
|  | C...30  | 59.05.1332 | 3.3 nF | 1X 50V PP                   |        |  | D....9  | 50.04.1106 | 2.7 V  | 5X, 0.4W Zener              |        |  | Q...17  | 50.03.0510   | BD136-16 | PNP                         |        | R...87 | 57.11.3243 | 24 kOhm    | 2X, 0.25W, MF |                             |        |
|  | C...31  | 59.05.1332 | 3.3 nF | 1X 50V PP                   |        |  | D...10  | 50.04.1106 | 2.7 V  | 5X, 0.4W Zener              |        |  | Q...18  | 50.03.0515   | BC307B   | BC557B, BC560B              | PNP    |        | R...88     | 57.11.3103 | 10 kOhm       | 2X, 0.25W, MF               |        |
|  | C...32  | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        |  | D...11  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...19  | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    |        | R...89     | 57.11.3682 | 6.8 kOhm      | 2X, 0.25W, MF               |        |
|  | C...33  | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        |  | D...12  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...20  | 50.03.0510   | BD136-16 | PNP                         |        | R...90 | 57.11.3103 | 10 kOhm    | 2X, 0.25W, MF |                             |        |
|  | C...34  | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        |  | D...13  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...21  | 50.03.0350   | J112     | FET                         | Not    |        | R...91     | 57.11.3682 | 6.8 kOhm      | 2X, 0.25W, MF               |        |
|  | C...35  | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        |  | D...14  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...22  |              |          | not used                    |        |        | R...92     | 57.11.3683 | 68 kOhm       | 2X, 0.25W, MF               |        |
|  | C...36  | 59.06.0473 | 47 nF  | 10X 50V PETF                |        |  | D...15  | 50.04.0125 | IN4448 | 50V SI                      |        |  | Q...23  | 50.03.0515   | BC307B   | BC557B, BC560B              | PNP    |        | R...93     | 57.11.3752 | 7.5 kOhm      | 2X, 0.25W, MF               |        |
|  | C...37  | 59.        |        |                             |        |  |         |            |        |                             |        |  |         |              |          |                             |        |        |            |            |               |                             |        |



## AUDIO ELECTRONICS BOARD TD 1.727.460.84

| IND.  | POS.NO.    | PART NO. | VALUE                      | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---|------------|----------|----------------------------|-----------------------------|--------|---|--------------|----------|-------------------|-----------------------------|--------|
| R...175   | 57.11.3470 | 47 Ohm   | 2K, 0.25W, MF              |                             |        | R...286   | 57.11.3339   | 3.3 Ohm  | 2K, 0.25W, MF     |                             |        |
| R...176   | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF              |                             |        | R...287   | 57.11.3472   | 4.7 kOhm | 2K, 0.25W, MF     |                             |        |
| R...177   | 57.11.3680 | 68 Ohm   | 2K, 0.25W, MF              |                             |        | R...288   | 57.11.3103   | 10 kOhm  | 2K, 0.25W, MF     |                             |        |
| R...178   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | R...289   | 57.11.3471   | 470 Ohm  | 2K, 0.25W, MF     |                             |        |
| R...179   | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        | R...290   | 57.11.3391   | 390 Ohm  | 2K, 0.25W, MF     |                             |        |
| R...180   | 57.11.3100 | 10 Ohm   | 2K, 0.25W, MF              |                             |        | R...291   | 57.11.3152   | 1.5 kOhm | 2K, 0.25W, MF     |                             |        |
| R...181   | 57.99.0209 | 5.6 Ohm  | 2K, 0.25W, PTC             |                             |        | R...292   | 57.92.1151   | 18 Ohm   | 150mA, PTC        |                             |        |
| R...182   | 57.11.3569 | 5.6 Ohm  | 2K, 0.25W, MF              |                             |        | R...293   | 57.11.3180   | 18 Ohm   | 2K, 0.25W, MF     |                             |        |
| R...183   | 57.11.3105 | 1 MOhm   | 2K, 0.25W, MF              |                             |        | R...294   | 57.11.3470   | 47 Ohm   | 2K, 0.25W, MF     |                             |        |
| R...184   |            |          | not used                   |                             |        | R...295   | 57.11.3223   | 22 kOhm  | 2K, 0.25W, MF     |                             |        |
| R...185   |            |          | not used                   |                             |        | R...296   | 57.11.3105   | 1 MOhm   | 2K, 0.25W, MF     |                             |        |
| R...186   | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF              |                             |        | R...297   | 57.11.3472   | 4.7 kOhm | 2K, 0.25W, MF     |                             |        |
| R...187   | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...188   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | T....1  | 1.022.400.00 | 1:4      | Mic Input Trafo   | St                          |        |
| R...189   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | T....2  | 1.022.451.00 | 1:0.62   | Line Input Trafo  | St                          |        |
| R...190   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | T....3  | 1.022.271.00 |          | Erase Trafo       | St                          |        |
| R...191   | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF              |                             |        | T....4  | 1.022.272.00 |          | Bias Trafo        | St                          |        |
| R...192   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | T....5  | 1.022.402.00 | 1:10     | Sync Trafo        | St                          |        |
| R...193   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | T....6  | 1.022.355.00 |          | Line Output Trafo | St                          |        |
| R...194   | 57.11.3105 | 1 MOhm   | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...195   | 57.11.3681 | 680 Ohm  | 2K, 0.25W, MF              |                             |        | TP....1   | 54.02.0320   |          | Plug 2.8x0.8      | AMP                         |        |
| R...196   |            |          | not used                   |                             |        | TP....2   | 54.02.0320   |          | Plug 2.8x0.8      | AMP                         |        |
| R...197   |            |          | not used                   |                             |        | TP....3   | 54.02.0320   |          | Plug 2.8x0.8      | AMP                         |        |
| R...198   | 57.11.3224 | 220 kOhm | 2K, 0.25W, MF              |                             |        | TP....4   | 54.02.0320   |          | Plug 2.8x0.8      | AMP                         |        |
| R...199   | 57.11.3224 | 220 kOhm | 2K, 0.25W, MF              |                             |        | TP....5   | 54.02.0320   |          | Plug 2.8x0.8      | AMP                         |        |
| R...200   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | TP....6   | 54.02.0320   |          | Plug 2.8x0.8      | AMP                         |        |
| R...201   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | TP....7   | 54.02.0320   |          | Plug 2.8x0.8      | AMP                         |        |
| R...202   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...203   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | W....1  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...204   |            |          | not used                   |                             |        | W....2  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...205   | 57.11.3181 | 180 Ohm  | 2K, 0.25W, MF              |                             |        | W....3  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...206   | 57.11.3562 | 5.6 Ohm  | 2K, 0.25W, MF              |                             |        | W....4  |              |          | not used          |                             |        |
| R...207   | 57.11.3104 | 100 kOhm | 2K, 0.25W, MF              |                             |        | W....5  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...208   | 57.11.3683 | 68 kOhm  | 2K, 0.25W, MF              |                             |        | W....6  |              |          | not used          |                             |        |
| R...209   | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF              |                             |        | W....7  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...210   | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF              |                             |        | W....8  | 64.01.0106   |          | Wire Bridge       |                             |        |
| R...211   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | W....13   | 1.010.329.64 |          | Wire Bridge       |                             |        |
| STUDER (01) 90/09/25 GP AUDIO ELECTRONICS BOARD PL 1.727.460.84 PAGE 13 |            |          |                            |                             |        | STUDER (01) 90/09/25 GP AUDIO ELECTRONICS BOARD PL 1.727.460.84 PAGE 16 |              |          |                   |                             |        |
| IND.  | POS.NO.    | PART NO. | VALUE                      | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
| R...212   | 57.11.3120 | 12 Ohm   | 2K, 0.25W, MF              |                             |        | XIC...1   | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...213   | 57.11.3560 | 56 Ohm   | 2K, 0.25W, MF              |                             |        | (00) XIC...2  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...214   | 57.11.3101 | 100 Ohm  | 2K, 0.25W, MF              |                             |        | (01) XIC...3  | 53.03.0166   | 16-Pole  | IC Socket         |                             |        |
| R...215   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | (01) XIC...4  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...216   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | (00) XIC...4  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...217   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | (01) XIC...4  | 53.03.0166   | 16-Pole  | IC Socket         |                             |        |
| R...218   | 57.11.3394 | 390 kOhm | 5K, 0.25W, MF              |                             |        | XIC...5   | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...219   | 57.11.3104 | 100 kOhm | 2K, 0.25W, MF, with socket |                             |        | XIC...6   | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...220   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...7   | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...221   |            |          | not used                   |                             |        | XIC...8   | 53.03.0166   | 16-Pole  | IC Socket         |                             |        |
| R...222   | 57.11.3822 | 8.2 kOhm | 2K, 0.25W, MF              |                             |        | XIC...9   | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...223   | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...10  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...224   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        | XIC...11  | 53.03.0165   | 20-Pole  | IC Socket         |                             |        |
| R...225   | 57.11.3393 | 39 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...12  | 53.03.0168   | 16-Pole  | IC Socket         |                             |        |
| R...226   | 57.11.3392 | 3.9 kOhm | 2K, 0.25W, MF              |                             |        | XIC...13  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...227   | 57.11.3563 | 56 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...14  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...228   | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...15  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...229   | 57.11.3562 | 5.6 kOhm | 2K, 0.25W, MF              |                             |        | XIC...16  | 53.03.0168   | 16-Pole  | IC Socket         |                             |        |
| R...230   | 57.11.3683 | 68 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...17  | 53.03.0168   | 16-Pole  | IC Socket         |                             |        |
| R...231   | 57.11.3562 | 5.6 kOhm | 2K, 0.25W, MF              |                             |        | XIC...18  | 53.03.0168   | 16-Pole  | IC Socket         |                             |        |
| R...232   | 57.11.3333 | 33 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...19  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...233   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...20  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...234   | 57.11.3271 | 270 Ohm  | 2 K 0.25W, MF              |                             |        | XIC...21  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...235   | 57.11.3273 | 27 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...22  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...236   | 57.11.3152 | 1.5 kOhm | 2K, 0.25W, MF              |                             |        | XIC...23  | 53.03.0165   | 20-Pole  | IC Socket         |                             |        |
| R...237   | 57.11.3331 | 330 Ohm  | 2K, 0.25W, MF              |                             |        | XIC...24  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...238   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...25  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...239   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        | XIC...26  | 53.03.0168   | 16-Pole  | IC Socket         |                             |        |
| R...240   | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF              |                             |        | XIC...27  | 53.03.0166   | 8-Pole   | IC Socket         |                             |        |
| R...241   |            |          | not used                   |                             |        |   |              |          |                   |                             |        |
| R...242   | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...243   | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...244   | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...245   | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...246   | 58.01.8502 | 5 kOhm   | 10K, 0.5 W, PMG            |                             |        |   |              |          |                   |                             |        |
| R...247   | 57.11.3821 | 820 Ohm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...248   | 57.11.3392 | 3.9 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| STUDER (01) 90/09/25 GP AUDIO ELECTRONICS BOARD PL 1.727.460.84 PAGE 14 |            |          |                            |                             |        | STUDER (01) 90/09/25 GP AUDIO ELECTRONICS BOARD PL 1.727.460.84 PAGE 17 |              |          |                   |                             |        |
| IND.  | POS.NO.    | PART NO. | VALUE                      | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.      | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
| R...249   |            |          | not used                   |                             |        | Note 1 Variable Phantom Supply  |              |          |                   |                             |        |
| R...250   | 57.11.3153 | 15 kOhm  | 2K, 0.25W, MF              |                             |        | U (V) : POS.NO. : PART NO. : VALUE                                      |              |          |                   |                             |        |
| R...251   | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        | 48 : R 3 / R 4 : 57990250 : 6.8 kOhm 0.1 X 0.25 W MF                    |              |          |                   |                             |        |
| R...252   | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF              |                             |        | 24 : R 3 / R 4 : : 4.3 kOhm 0.1 X 0.25 W MF                             |              |          |                   |                             |        |
| R...253   | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF              |                             |        | 12 : R 3 / R 4 : 57990199 : 680 Ohm 0.1 X 0.25 W MF                     |              |          |                   |                             |        |
| R...254   | 57.11.3331 | 330 Ohm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...255   | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...256   | 57.11.3273 | 27 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...257   | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...258   | 57.11.3471 | 470 Ohm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...259   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...260   | 57.11.3221 | 220 Ohm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...261   | 57.11.3122 | 1.2 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...262   | 57.11.3471 | 470 Ohm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...263   | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...264   | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...265   | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...266   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...267   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...268   | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...269   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...270   | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...271   | 57.11.3122 | 1.2 kOhm | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...272   | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...273   | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...274   | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...275   | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...276   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...277   | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...278   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...279   | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF              |                             |        |   |              |          |                   |                             |        |
| R...280   | 5          |          |                            |                             |        |   |              |          |                   |                             |        |

**AUDIO ELECTRONICS BOARD TD 1.727.461.83**



|               |                            |  |  |  |  |    |  |              |
|---------------|----------------------------|--|--|--|--|----|--|--------------|
| (0) 9.7.89 GP |                            |  |  |  |  |    |  | PAGE 1 OF 6  |
| <b>STUDER</b> | AUDIO ELECTRONICS BOARD TD |  |  |  |  | SC |  | 1.727.461.83 |

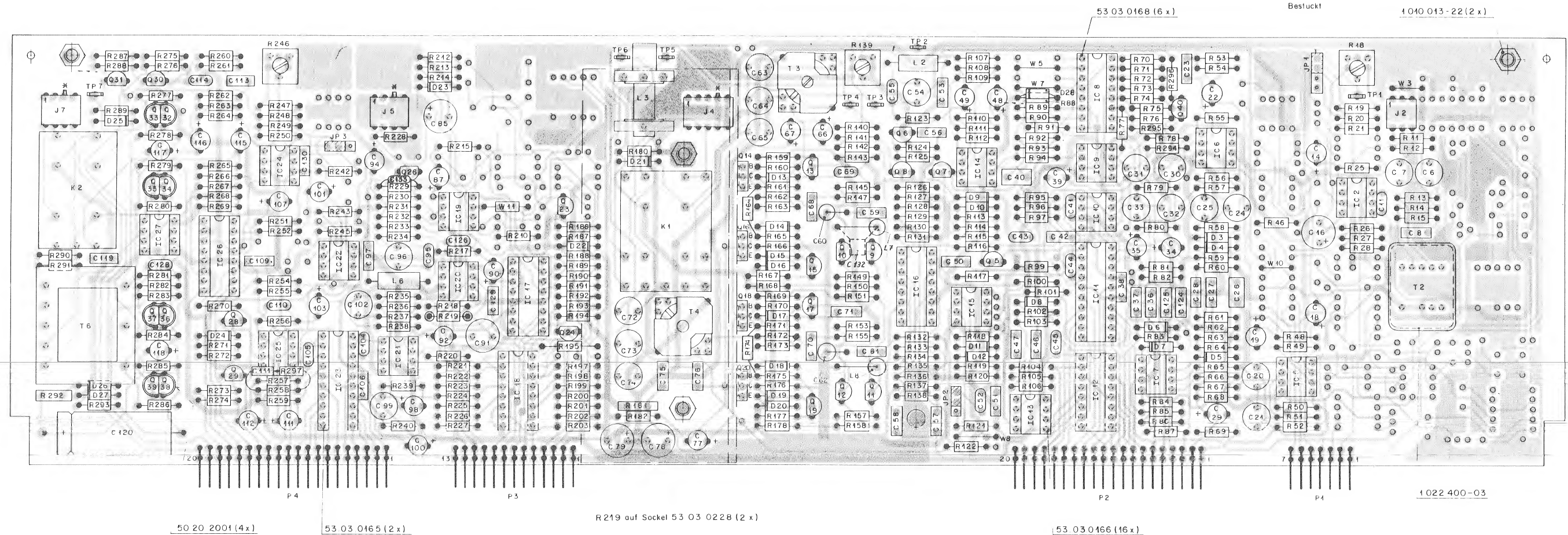
|             |                            |         |       |                 |
|-------------|----------------------------|---------|-------|-----------------|
| ① 9.7.83 GP | ○                          | ○       | ○ . . | ○ . .           |
|             | A807                       | GR41/42 |       | PAGE 2 OF 6     |
| STUDER      | AUDIO ELECTRONICS BOARD TD |         |       | SC 1.127.461.83 |

|              |                            |       |              |             |
|--------------|----------------------------|-------|--------------|-------------|
| ① 9.7. 89 GP | ○ . .                      | ○ . . | ○ . .        | ○ . .       |
|              | A 807 GR 41/42             |       |              | PAGE 3 OF 6 |
| STUDER       | AUDIO ELECTRONICS BOARD TD | SC    | 1.727.461.83 |             |





## AUDIO ELECTRONICS BOARD TD 1.727.461.83



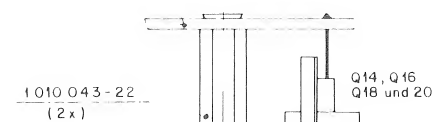
R18 = INPUT LEVEL ADJUSTMENT  
 R139 = ERASE VOLTAGE ADJUSTMENT  
 R246 = OUTPUT LEVEL ADJUSTMENT  
 L3 = BIAS TRAP  
 T3 = ERASE HEAD CIRCUIT

JP1 INPUT LEVEL SENSITIVITY  
 JP2 HX PRO: A = ON, B = OFF  
 JP3 OUTPUT LEVEL SENSITIVITY

TP1 RECORD AMPLIFIER SIGNAL (0.775 V = 0 VU)  
 TP2 0.0 V  
 TP3 VOLTAGE ON ERASE HEAD  
 TP4 PRIMARY CURRENT ON ERASE TRANSFORMER  
 TP5 BIAS CURRENT ON 10 Ω  
 TP6 REJECTOR FILTER ADJUSTMENT  
 TP7 VU METER SIGNAL (0.775 V = 0 VU)

FACTORY STANDARD SETTING

1.727.420-12



21 51 8355 (2x)  
 24 16 4030 (2x)

1.727.420-02

1.727.420-01

\* Codierung Schottdraht 64 01 0108 0,8 x 8 mm  
 (muss 1 mm vorstehen)

Nr. Etikette 1.727.461-10  
 Warnschild 43.01 0108

STUDER A807 MKII

AUDIO ELECTRONICS BOARD TD 1.727.461.83

| IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO.  | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE                 | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.    | PART NO. | VALUE           | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|------------|----------|-------|-----------------------------|--------|--|------------|-----------|--------------------------|-----------------------------|--------|--|------------|----------|-----------------------|-----------------------------|--------|---|------------|----------|-----------------|-----------------------------|--------|
| C....6   | 59.05.1681 | 680 pF   | 1X    | 50V PP                      |        | D....3   | 50.04.0125 | IN4448    | 50V SI                   |                             |        | Q....28  | 50.03.0340 | BC337-25 |                       | NPN                         |        | R...131   | 57.11.3153 | 15 kOhm  | 2X, 0.25W       | MF                          |        |
| C....7   | 59.05.1681 | 680 pF   | 1X    | 50V PP                      |        | D....4   | 50.04.1102 | 6.8 V     | 5X 0.4W Zener            |                             |        | Q....29  | 50.03.0515 | BC307B   | BC557B, BC560B        | NPN                         |        | R...132   | 57.11.3103 | 10 kOhm  | 2X, 0.25W       | MF                          |        |
| C....8   | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | D....5   | 50.04.1106 | 2.7 V     | 5X, 0.4W Zener           |                             |        | Q....30  | 50.03.0436 | BC237B   | BC547B, BC508         | NPN                         |        | R...133   | 57.11.3221 | 220 Ohm  | 2X, 0.25W       | MF                          |        |
| C....11  | 59.34.4151 | 150 pF   | 10X   | 50V Cer                     |        | D....6   | 50.04.1112 | 5.1 V     | 5X, 0.4W Zener           |                             |        | Q....31  | 50.03.0515 | BC307B   | BC557B, BC560B        | NPN                         |        | R...134   | 57.11.3221 | 220 Ohm  | 2X, 0.25W       | MF                          |        |
| C....14  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....7   | 50.04.0125 | IN4448    | 50V SI                   |                             |        | Q....32  | 50.03.0516 | BC337    | matched with Q33, NPN |                             |        | R...135   | 57.11.3221 | 220 Ohm  | 2X, 0.25W       | MF                          |        |
| C....16  | 59.22.2221 | 220 uF   | -20X  | 6.3V EL                     |        | D....8   | 50.04.1106 | 2.7 V     | 5X, 0.4W Zener           |                             |        | Q....33  | 50.03.0516 | BC337    | matched with Q32, NPN |                             |        | R...136   | 57.11.3221 | 220 Ohm  | 2X, 0.25W       | MF                          |        |
| C....18  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....9   |            | not used  |                          |                             |        | Q....34  | 50.03.0625 | BC327    | matched with Q35, PNP |                             |        | R...137   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....19  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....10  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | Q....35  | 50.03.0625 | BC327    | matched with Q34, PNP |                             |        | R...138   | 57.11.3822 | 8.2 kOhm | 2X, 0.25W       | MF                          |        |
| C....20  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....11  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | Q....36  | 50.03.0516 | BC337    | matched with Q37, NPN |                             |        | R...139   | 58.01.8103 | 10 kOhm  | 10X, 0.5 W, PMG |                             |        |
| C....21  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....12  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...37   | 50.03.0516 | BC337    | matched with Q36, NPN |                             |        | R...140   | 57.11.3229 | 2.2 Ohm  | 2X, 0.25W       | MF                          |        |
| C....22  | 59.22.6100 | 10 uF    | -20X  | 35V EL                      |        | D....13  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | Q....38  | 50.03.0625 | BC327    | matched with Q39, PNP |                             |        | R...141   | 57.11.3301 | 300 Ohm  | 2X, 0.25W       | MF                          |        |
| C....23  | 59.06.5682 | 6.8 nF   | 5X    | 50V PETF                    |        | D....14  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | Q....39  | 50.03.0625 | BC327    | matched with Q38, PNP |                             |        | R...142   | 57.11.3332 | 3.3 kOhm | 2X, 0.25W       | MF                          |        |
| C....24  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....15  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | Q....40  | 50.03.0350 | 1112     |                       |                             |        | R...143   | 57.11.3332 | 3.3 kOhm | 2X, 0.25W       | MF                          |        |
| C....25  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....16  | 50.04.0125 | IN4448    | 50V SI                   |                             |        |  |            |          |                       |                             |        | R...145   | 57.11.3332 | 3.3 kOhm | 2X, 0.25W       | MF                          |        |
| C....26  | 59.06.0105 | 1 uF     | 10X   | 50V PETF                    |        | D....17  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...11   | 57.11.3152 | 1.5 kOhm | 2X, 0.25W             | MF                          |        | R...147   | 57.11.3471 | 470 Ohm  | 2X, 0.25W       | MF                          |        |
| C....27  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....18  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...12   | 57.11.3152 | 1.5 kOhm | 2X, 0.25W             | MF                          |        | R...149   | 57.11.3220 | 22 Ohm   | 2X, 0.25W       | MF                          |        |
| C....28  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....19  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...13   | 57.11.3392 | 3.9 kOhm | 2X, 0.25W             | MF                          |        | R...150   | 57.11.3220 | 22 Ohm   | 2X, 0.25W       | MF                          |        |
| C....29  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....20  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...14   | 57.11.3392 | 3.9 kOhm | 2X, 0.25W             | MF                          |        | R...151   | 57.11.3332 | 3.3 kOhm | 2X, 0.25W       | MF                          |        |
| C....30  | 59.05.1332 | 3.3 nF   | 1X    | 50V PP                      |        | D....21  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...15   | 57.11.3182 | 1.8 kOhm | 2X, 0.25W             | MF                          |        | R...153   | 57.11.3332 | 3.3 kOhm | 2X, 0.25W       | MF                          |        |
| C....31  | 59.05.1332 | 3.3 nF   | 1X    | 50V PP                      |        | D....22  | 50.04.1121 | 24 V      | 5X 0.4W Zener            |                             |        | R...18   | 58.01.8502 | 5 kOhm   | 10X, 0.5 W, PMG       |                             |        | R...155   | 57.11.3332 | 3.3 kOhm | 2X, 0.25W       | MF                          |        |
| C....32  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....23  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...19   | 57.11.3824 | 820 Ohm  | 2X, 0.25W             | MF                          |        | R...157   | 57.11.3220 | 22 Ohm   | 2X, 0.25W       | MF                          |        |
| C....33  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....24  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...20   | 57.11.3123 | 12 kOhm  | 2X, 0.25W             | MF                          |        | R...158   | 57.11.3220 | 22 Ohm   | 2X, 0.25W       | MF                          |        |
| C....34  | 59.22.8479 | 4.7 uF   | -20X  | 35V EL                      |        | D....25  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...21   | 57.11.3222 | 2.2 kOhm | 2X, 0.25W             | MF                          |        | R...159   | 57.11.3470 | 47 Ohm   | 2X, 0.25W       | MF                          |        |
| C....35  | 59.22.8479 | 4.7 uF   | -20X  | 35V EL                      |        | D....26  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...25   | 57.11.3433 | 43 kOhm  | 2X, 0.25W             | MF                          |        | R...160   | 57.11.3229 | 2.2 Ohm  | 2X, 0.25W       | MF                          |        |
| C....36  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....27  | 50.04.0125 | IN4448    | 50V SI                   |                             |        | R...26   | 57.11.3392 | 3.9 kOhm | 2X, 0.25W             | MF                          |        | R...161   | 57.11.3470 | 47 Ohm   | 2X, 0.25W       | MF                          |        |
| C....37  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....28  | 50.04.1114 | 10 V      | 5X 0.4W Zener            |                             |        | R...27   | 57.11.3432 | 4.3 kOhm | 2X, 0.25W             | MF                          |        | R...162   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W       | MF                          |        |
| C....38  | 59.06.0683 | 68 nF    | 10X   | 50V PETF                    |        | IC...7   | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Sig                         |        | R...28   | 57.11.3101 | 100 Ohm  | 2X, 0.25W             | MF                          |        | R...164   | 57.11.3102 | 1 kOhm   | 2X, 0.25W       | MF                          |        |
| C....39  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | IC...5   | 50.09.0105 | NE 5532   | Dual Op. Amp.            | Sig                         |        | R...46   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...165   | 57.11.3470 | 47 Ohm   | 2X, 0.25W       | MF                          |        |
| C....40  | 59.06.5474 | 470 nF   | 5X    | 50V PETF                    |        | IC...5   | 50.09.0105 | NE 5532   | Dual Op. Amp.            | Sig                         |        | R...48   | 57.11.3473 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...166   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W       | MF                          |        |
| C....41  | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | IC...6   | 50.09.0107 | RC 4559   | Dual Op. Amp.            | NS                          |        | R...49   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...177   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....42  | 59.06.0223 | 22 nF    | 10X   | 50V PETF                    |        | IC...7   | 50.09.0107 | RC 4559   | Dual Op. Amp.            | NS                          |        | R...50   | 57.11.3132 | 1.3 kOhm | 2X, 0.25W             | MF                          |        | R...178   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....43  | 59.34.4221 | 220 pF   | 5X    | 50V Cer                     |        | IC...8   | 50.07.0024 | MC 14052  | CMOS Analog Switch       | Mot                         |        | R...51   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...180   | 57.11.3100 | 10 Ohm   | 2X, 0.25W       | MF                          |        |
| C....44  | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | IC...9   | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Ra                          |        | R...52   | 57.11.3473 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...181   | 57.95.0207 | 5.8 kOhm | 2X, 0.25W       | PTC                         |        |
| C....45  | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | IC...10  | 50.09.0105 | NE 5532   | Dual Op. Amp.            | Ra                          |        | R...53   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W             | MF                          |        | R...182   | 57.11.3569 | 5.6 Ohm  | 2X, 0.25W       | MF                          |        |
| C....46  | 59.06.0333 | 33 nF    | 10X   | 50V PETF                    |        | IC...11  | 50.07.0026 | AD 7528JN | Dual 8-bit D/A Converter | ADI                         |        | R...54   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...186   | 57.11.3222 | 2.2 kOhm | 2X, 0.25W       | MF                          |        |
| C....47  | 59.06.0104 | 100 nF   | 10X   | 50V PETF                    |        | IC...12  | 50.07.0002 | AD 7524JN | 8-bit D/A Converter      | ADI                         |        | R...55   | 57.11.3333 | 33 kOhm  | 2X, 0.25W             | MF                          |        | R...187   | 57.11.3222 | 2.2 kOhm | 2X, 0.25W       | MF                          |        |
| C....48  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | IC...13  | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Ra                          |        | R...56   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...189   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD TD PL 1.727.461.83 PAGE 1 |            |          |       |                             |        | S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD TD PL 1.727.461.83 PAGE 4 |            |           |                          |                             |        | S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD TD PL 1.727.461.83 PAGE 7 |            |          |                       |                             |        | S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD TD PL 1.727.461.83 PAGE 10 |            |          |                 |                             |        |
| IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO.  | VALUE                    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.    | PART NO. | VALUE                 | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO.    | PART NO. | VALUE           | SPECIFICATIONS / EQUIVALENT | MANUF. |
| C....49  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | IC...14  | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Ra                          |        | R...57   | 57.11.3272 | 2.7 kOhm | 2X, 0.25W             | MF                          |        | R...174   | 57.11.3102 | 1 kOhm   | 2X, 0.25W       | MF                          |        |
| C....50  | 59.06.0104 | 100 nF   | 10X   | 50V PETF                    |        | IC...15  | 50.09.0101 | LF 353    | Dual Op. Amp.            | NS                          |        | R...58   | 57.11.3272 | 2.7 kOhm | 2X, 0.25W             | MF                          |        | R...175   | 57.11.3470 | 47 Ohm   | 2X, 0.25W       | MF                          |        |
| C....51  | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | IC...16  | 50.09.0112 | LM 13700  | Dual OTA                 | NS                          |        | R...59   | 57.11.3223 | 22 kOhm  | 2X, 0.25W             | MF                          |        | R...176   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W       | MF                          |        |
| C....52  | 59.34.4151 | 150 pF   | 5X    | 50V Cer                     |        | IC...17  | 50.07.0015 | MC 14053  | CMOS Analog Switch       | Mot                         |        | R...60   | 57.11.3473 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...177   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....53  | 59.06.0102 | 1 nF     | 10X   | 50V PETF                    |        | IC...18  | 50.07.0024 | MC 14052  | CMOS Analog Switch       | Mot                         |        | R...61   | 57.11.3152 | 1.5 kOhm | 2X, 0.25W             | MF                          |        | R...178   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....54  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | IC...19  | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Ra                          |        | R...62   | 57.11.3103 | 10 kOhm  | 2X, 0.25W             | MF                          |        | R...180   | 57.11.3100 | 10 Ohm   | 2X, 0.25W       | MF                          |        |
| C....55  | 59.34.4680 | 68 pF    | 10X   | 50V Cer                     |        | IC...20  | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Ra                          |        | R...63   | 57.11.3154 | 150 kOhm | 2X, 0.25W             | MF                          |        | R...181   | 57.95.0207 | 5.8 kOhm | 2X, 0.25W       | PTC                         |        |
| C....56  | 59.06.0472 | 4.7 nF   | 10X   | 50V PETF                    |        | IC...21  | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Ra                          |        | R...64   | 57.11.3102 | 1 kOhm   | 2X, 0.25W             | MF                          |        | R...182   | 57.11.3569 | 5.6 Ohm  | 2X, 0.25W       | MF                          |        |
| C....57  | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | IC...22  | 50.09.0105 | NE 5532   | Dual Op. Amp.            | Sig                         |        | R...65   | 57.11.3104 | 100 kOhm | 2X, 0.25W             | MF                          |        | R...186   | 57.11.3222 | 2.2 kOhm | 2X, 0.25W       | MF                          |        |
| C....58  | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | IC...23  | 50.07.0026 | AD 7528JN | Dual 8-bit D/A Converter | ADI                         |        | R...66   | 57.11.3243 | 24 kOhm  | 2X, 0.25W             | MF                          |        | R...187   | 57.11.3222 | 2.2 kOhm | 2X, 0.25W       | MF                          |        |
| C....59  | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | IC...24  | 50.09.0105 | NE 5532   | Dual Op. Amp.            | Sig                         |        | R...67   | 57.11.3302 | 3 kOhm   | 2X, 0.25W             | MF                          |        | R...188   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....60  | 59.12.9102 | 1 nF     | 1X    | 50V PP                      |        | IC...25  | 50.09.0107 | RC 4559   | Dual Op. Amp.            | Ra                          |        | R...68   | 57.11.3302 | 3 kOhm   | 2X, 0.25W             | MF                          |        | R...189   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....61  | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | IC...26  | 50.07.0015 | MC 14053  | CMOS Analog Switch       | Mot                         |        | R...69   | 57.11.3473 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...190   | 57.11.3682 | 6.8 kOhm | 2X, 0.25W       | MF                          |        |
| C....62  | 59.12.9102 | 1 nF     | 1X    | 50V PP                      |        | IC...27  | 50.09.0105 | NE 5532   | Dual Op. Amp.            | Sig                         |        | R...70   | 57.11.3472 | 4.7 kOhm | 2X, 0.25W             | MF                          |        | R...191   | 57.11.3569 | 5.6 Ohm  | 2X, 0.25W       | MF                          |        |
| C....63  | 59.05.2332 | 3.3 nF   | 2.5X  | 160V PP                     |        | J....2   | 54.01.0249 | 3-Pole    | CIS Socket Strip         | AMP                         |        |  |            |          |                       |                             |        |   |            |          |                 |                             |        |

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| IND.  | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-------|---------|--------------|----------|-----------------------------|--------|
| R...  | 263     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 264     | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...  | 265     | 57.11.3473   | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 266     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 267     | 57.11.3682   | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R...  | 268     | 57.11.3682   | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R...  | 269     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 270     | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...  | 271     | 57.11.3122   | 1.2 kOhm | 2%, 0.25W, MF               |        |
| R...  | 272     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 273     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 274     | 57.11.3473   | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 275     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 276     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 277     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 278     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 279     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 280     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 281     | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...  | 282     | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...  | 283     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 284     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 285     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 286     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 287     | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...  | 288     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 289     | 57.11.3471   | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 290     | 57.11.3391   | 390 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 291     | 57.11.3152   | 1.5 kOhm | 2%, 0.25W, MF               |        |
| R...  | 292     | 57.92.1151   | 18 Ohm   | 150mA, PTC                  |        |
| R...  | 293     | 57.11.3180   | 18 Ohm   | 2%, 0.25W, MF               |        |
| R...  | 294     | 57.11.3470   | 47 Ohm   | 2%, 0.25W, MF               |        |
| R...  | 295     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 296     | 57.11.3105   | 1 MOhm   | 2%, 0.25W, MF               |        |
| R...  | 297     | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| T.... | 2       | 1.022.451.00 | 1:0.62   | Line Input Trafo            | St     |

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| IND.   | POS.NO. | PART NO.     | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--------|---------|--------------|---------|-----------------------------|--------|
| T....  | 3       | 1.022.271.00 |         | Erase Trafo                 | St     |
| T....  | 4       | 1.022.272.00 |         | Bias Trafo                  | St     |
| T....  | 6       | 1.022.355.00 |         | Line Output Trafo           | St     |
| TP.... | 1       | 54.02.0320   |         | Plug 2.8*0.8                | AMP    |
| TP.... | 2       | 54.02.0320   |         | Plug 2.8*0.8                | AMP    |
| TP.... | 3       | 54.02.0320   |         | Plug 2.8*0.8                | AMP    |
| TP.... | 4       | 54.02.0320   |         | Plug 2.8*0.8                | AMP    |
| TP.... | 5       | 54.02.0320   |         | Plug 2.8*0.8                | AMP    |
| TP.... | 6       | 54.02.0320   |         | Plug 2.8*0.8                | AMP    |
| TP.... | 7       | 54.02.0320   |         | Plug 2.8*0.8                | AMP    |
| W....  | 3       | 64.01.0106   |         | Wire Bridge                 |        |
| W....  | 4       |              |         | not used                    |        |
| W....  | 5       | 64.01.0106   |         | Wire Bridge                 |        |
| W....  | 6       |              |         | not used                    |        |
| W....  | 7       | 64.01.0106   |         | Wire Bridge                 |        |
| W....  | 8       | 64.01.0106   |         | Wire Bridge                 |        |
| W....  | 10      | 64.01.0106   |         | Wire Bridge                 |        |
| W....  | 11      | 57.11.3000   |         | Wire Bridge                 |        |
| XIC... | 2       | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 5       | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 6       | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 7       | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 8       | 53.03.0168   | 16-Pole | IC Socket                   |        |
| XIC... | 9       | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 10      | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 11      | 53.03.0165   | 20-Pole | IC Socket                   |        |
| XIC... | 12      | 53.03.0168   | 16-Pole | IC Socket                   |        |
| XIC... | 13      | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 14      | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 15      | 53.03.0166   | 8-Pole  | IC Socket                   |        |
| XIC... | 16      | 53.03.0168   | 16-Pole | IC Socket                   |        |
| XIC... | 17      | 53.03.0168   | 16-Pole | IC Socket                   |        |
| XIC... | 18      | 53.03.0168   | 16-Pole | IC Socket                   |        |
| XIC... | 19      | 53.03.0166   | 8-Pole  | IC Socket                   |        |

S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD TD PL 1.727.461.83 PAGE 14

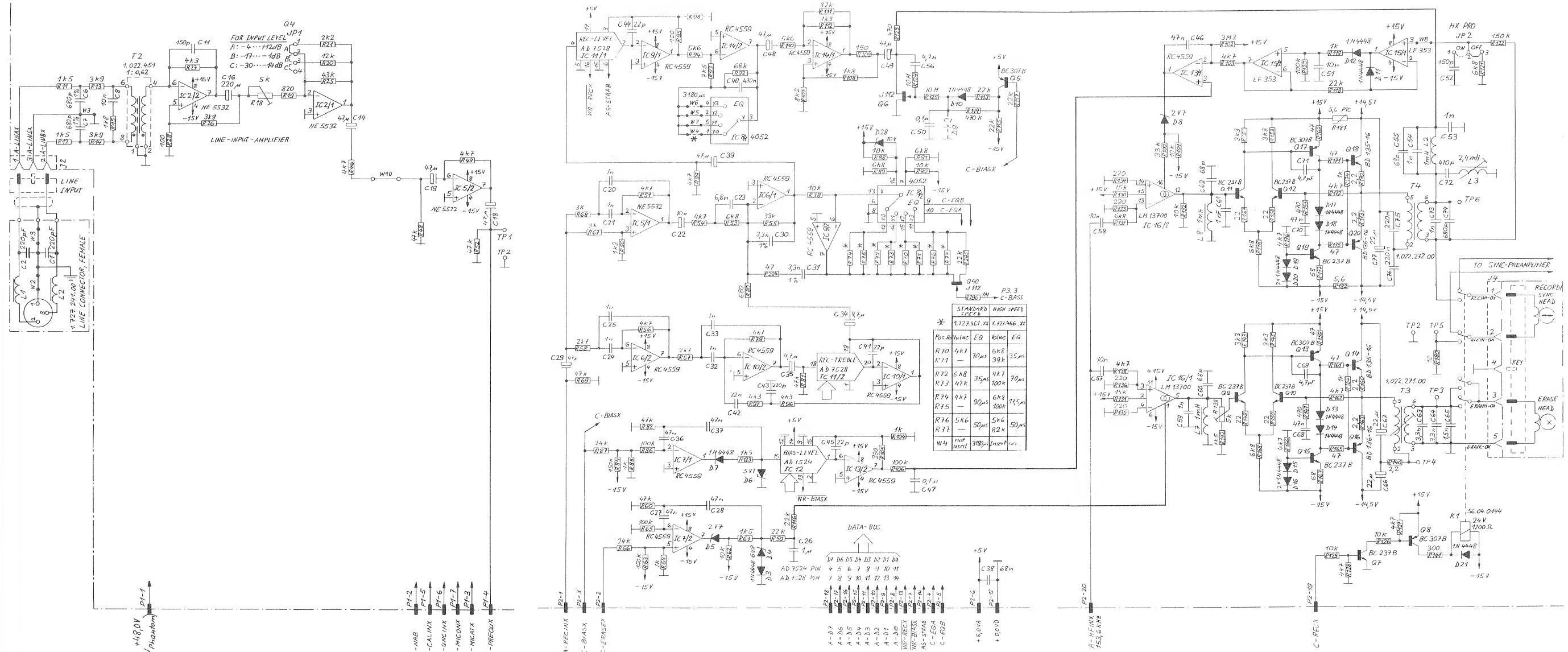
| IND.  | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-------|---------|------------|---------|-----------------------------|--------|
| XIC.. | 20      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC.. | 21      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC.. | 22      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC.. | 23      | 53.03.0165 | 20-Pole | IC Socket                   |        |
| XIC.. | 24      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC.. | 25      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC.. | 26      | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC.. | 27      | 53.03.0166 | 8-Pole  | IC Socket                   |        |

Cer = Ceramic EL = Electrolytic PETP = Polyester  
 PP = Polypropylen MF = Metal Film SI = Silicon  
 MANUFACTURER: ADI = Analog Devices Inc. Mot = Motorola  
 NS = National Semiconductors Ra = Raytheon  
 Sig = Signetec St = Studer

ORIG 89/07/03

S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD TD PL 1.727.461.83 PAGE 15

AUDIO ELECTRONICS BOARD TD 1.727.461.84  
-AUDIO ELECTRONICS BOARD TD,HS 1.727.466.00



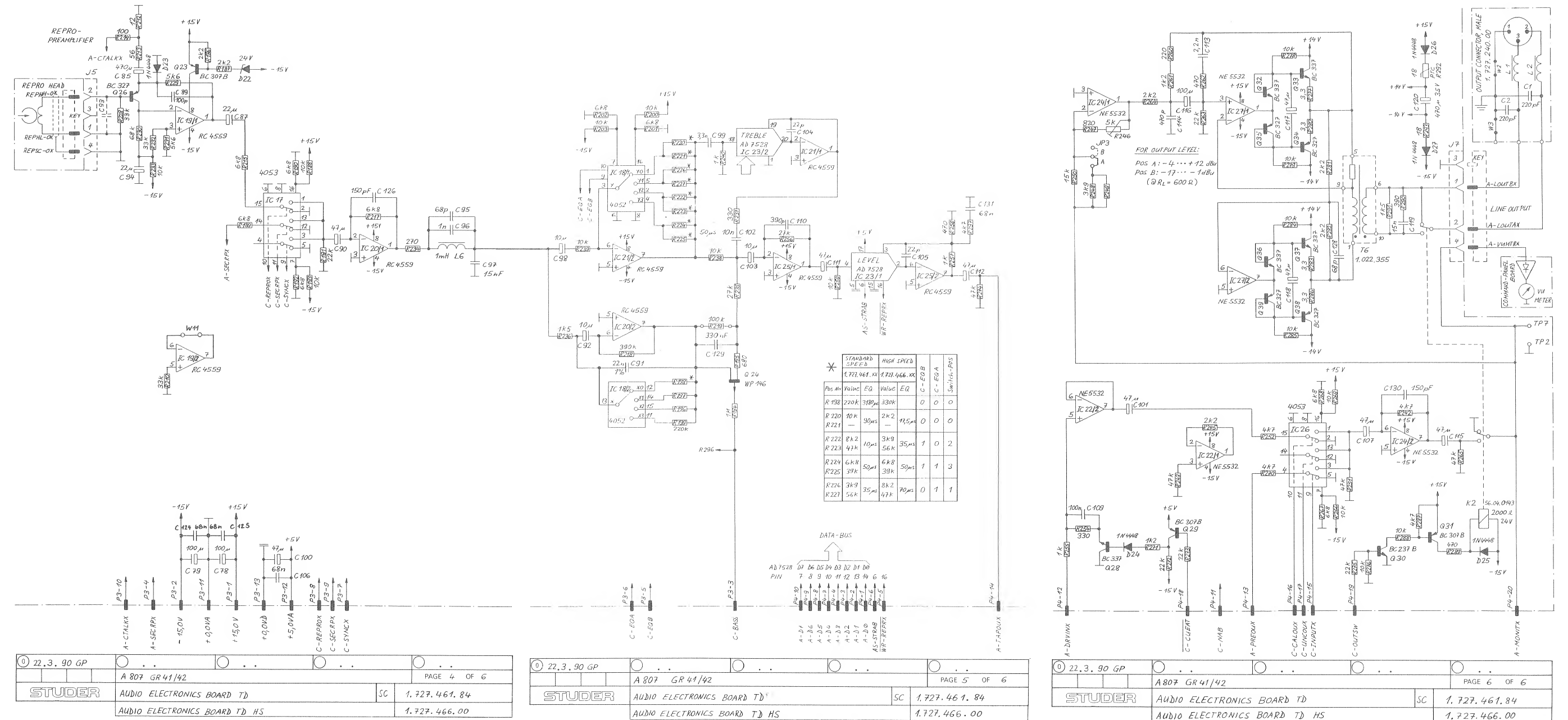
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| 0 22.3.90 GP | A 807 GR 41/42                | PAGE 1 OF 6     |
| STUDER       | AUDIO ELECTRONICS BOARD TD    | SC 1.727.461.84 |
|              | AUDIO ELECTRONICS BOARD TD HS | 1.727.466.00    |

|              |                               |                 |
|--------------|-------------------------------|-----------------|
| 0 22.3.90 GP | A 807 GR 41/42                | PAGE 2 OF 6     |
| STUDER       | AUDIO ELECTRONICS BOARD TD    | SC 1.727.461.84 |
|              | AUDIO ELECTRONICS BOARD TD HS | 1.727.466.00    |

|              |                               |                 |
|--------------|-------------------------------|-----------------|
| 0 22.3.90 GP | A 807 GR 41/42                | PAGE 3 OF 6     |
| STUDER       | AUDIO ELECTRONICS BOARD TD    | SC 1.727.461.84 |
|              | AUDIO ELECTRONICS BOARD TD HS | 1.727.466.00    |

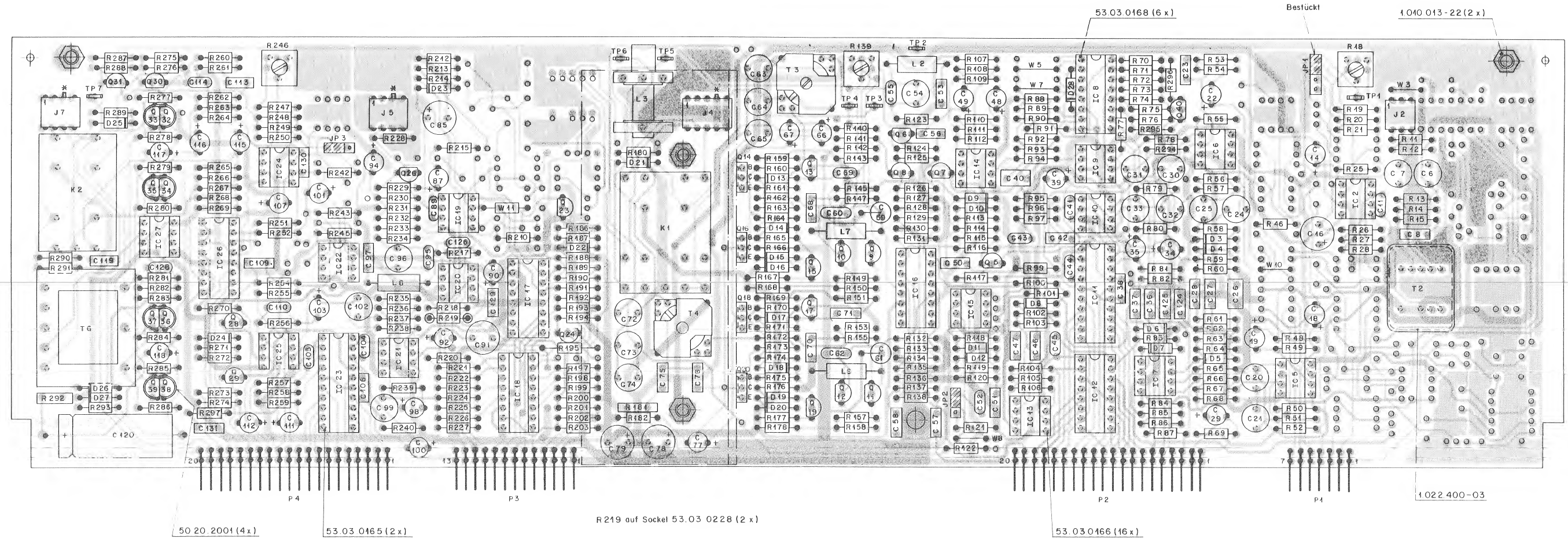


AUDIO ELECTRONICS BOARD TD 1.727.461.84  
-AUDIO ELECTRONICS BOARD TD,HS 1.727.466.00





**AUDIO ELECTRONICS BOARD TD 1.727.461.84**  
**-AUDIO ELECTRONICS BOARD TD,HS 1.727.466.00**

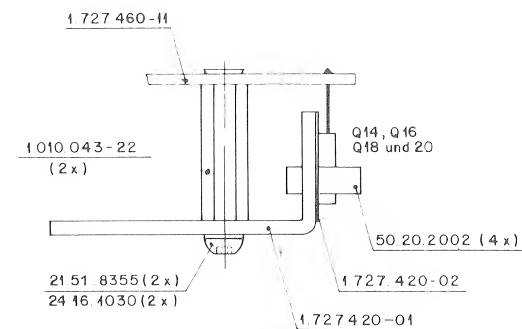


R18 = INPUT LEVEL ADJUSTMENT  
 R139 = ERASE VOLTAGE ADJUSTMENT  
 R246 = OUTPUT LEVEL ADJUSTMENT  
 L3 = BIAS TRAP  
 T3 = ERASE HEAD CIRCUIT

JP1 INPUT LEVEL SENSITIVITY  
 JP2 HX PRO: A = ON, B = OFF  
 JP3 OUTPUT LEVEL SENSITIVITY

TP1 RECORD AMPLIFIER SIGNAL (0.775 V = 0 VU)  
 TP2 0.0 V  
 TP3 VOLTAGE ON ERASE HEAD  
 TP4 PRIMARY CURRENT ON ERASE TRANSFORMER  
 TP5 BIAS CURRENT ON 10  $\Omega$   
 TP6 REJECTOR FILTER ADJUSTMENT  
 TP7 VU METER SIGNAL (0.775 V = 0 VU)

FACTORY STANDARD SETTING



\* Codierung - Schalldraht 64 01.0108  $\phi$  0.8 x 8mm  
 (muss 1mm vorstehen)

Nr. Etikette 1.727.461-40  
 Warnschild 43.01.0108

STUDER A807 MKII

AUDIO ELECTRONICS BOARD TD 1.727.461.84

| POS.NO. | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. | POS.NO. | PART NO. | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF.             | IND.  | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.     | POS.NO.    | PART NO.   | VALUE           | SPECIFICATIONS / EQUIVALENT | MANUF.   |            |            |                 |           |    |
|---------|------------|--------|-----------------------------|--------|---------|----------|------------|-----------------------------|--------------------|-------|---------|------------|----------|-----------------------------|--------|----------|------------|------------|-----------------|-----------------------------|----------|------------|------------|-----------------|-----------|----|
| C....6  | 59.05.1681 | 680 pF | 1%                          | 50V    | PP      | D....5   | 50.04.1106 | 2.7 V                       | 5%, 0.4W           | Zenec | Q....30 | 50.03.0436 | BC237B   | BC547B, BC550B              | NPN    | R....133 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF                          | R....133 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF        |    |
| C....7  | 59.05.1681 | 690 pF | 1%                          | 50V    | PP      | D....6   | 50.04.1112 | 5.1 V                       | 5%, 0.4W           | Zenec | Q....31 | 50.03.0515 | BC307B   | BC557B, BC560B              | NPN    | R....134 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF                          | R....134 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF        |    |
| C....8  | 59.06.0103 | 10 nF  | 10%                         | 50V    | PETP    | D....7   | 50.04.0125 | 1N4448                      | 50V                | SI    | Q....32 | 50.03.0516 | BC337    | matched with Q33, NPN       |        | R....135 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF                          | R....135 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF        |    |
| C....11 | 59.34.4151 | 150 pF | 10%                         | 50V    | Cer     | D....8   | 50.04.1106 | 2.7 V                       | 5%, 0.4W           | Zenec | Q....33 | 50.03.0516 | BC337    | matched with Q32, NPN       |        | R....136 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF                          | R....136 | 57.11.3221 | 220 Ohm    | 2%, 0.25W       | MF        |    |
| C....14 | 59.22.3470 | 47 uF  | -20%                        | 10V    | EL      | D....9   | 50.04.0125 | 1N4448                      | not used           |       | Q....34 | 50.03.0625 | BC327    | matched with Q35, PNP       |        | R....137 | 57.11.3682 | 6.8 kOhm   | 2%, 0.25W       | MF                          | R....137 | 57.11.3682 | 6.8 kOhm   | 2%, 0.25W       | MF        |    |
| C....16 | 59.22.2221 | 220 uF | -20%                        | 6.3V   | EL      | D....10  | 50.04.0125 | 1N4448                      | 50V                | SI    | Q....35 | 50.03.0625 | BC327    | matched with Q34, PNP       |        | R....138 | 57.11.3472 | 4.7 kOhm   | 2%, 0.25W       | MF                          | R....138 | 57.11.3472 | 4.7 kOhm   | 2%, 0.25W       | MF        |    |
| C....18 | 59.22.3470 | 47 uF  | -20%                        | 10V    | EL      | D....11  | 50.04.0125 | 1N4448                      | 50V                | SI    | Q....36 | 50.03.0516 | BC337    | matched with Q37, NPN       |        | R....139 | 58.01.8502 | 5 kOhm     | 10%, 0.5 W, PMG |                             | R....139 | 58.01.8502 | 5 kOhm     | 10%, 0.5 W, PMG |           |    |
| C....19 | 59.22.3470 | 47 uF  | -20%                        | 10V    | EL      | D....12  | 50.04.0125 | 1N4448                      | 50V                | SI    | Q....37 | 50.03.0516 | BC337    | matched with Q36, NPN       |        | R....140 | 57.11.3229 | 2.2 Ohm    | 2%, 0.25W       | MF                          | R....140 | 57.11.3229 | 2.2 Ohm    | 2%, 0.25W       | MF        |    |
| C....20 | 59.05.2102 | 1 nF   | 2.5%                        | 50V    | PP      | D....13  | 50.04.0125 | 1N4448                      | 50V                | SI    | Q....38 | 50.03.0625 | BC327    | matched with Q39, PNP       |        | R....141 | 57.11.3301 | 300 Ohm    | 2%, 0.25W       | MF                          | R....141 | 57.11.3301 | 300 Ohm    | 2%, 0.25W       | MF        |    |
| C....21 | 59.05.2102 | 1 nF   | 2.5%                        | 50V    | PP      | D....14  | 50.04.0125 | 1N4448                      | 50V                | SI    | Q....39 | 50.03.0625 | BC327    | matched with Q38, PNP       |        | R....142 | 57.11.3152 | 1.5 kOhm   | 2%, 0.25W       | MF                          | R....142 | 57.11.3152 | 1.5 kOhm   | 2%, 0.25W       | MF        |    |
| C....22 | 59.22.6100 | 10 uF  | -20%                        | 35V    | EL      | D....15  | 50.04.0125 | 1N4448                      | 50V                | SI    | Q....40 | 50.03.0350 | J112     |                             | FET    | Hot      | R....143   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W                   | MF       | R....143   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W | MF |
| C....23 | 59.06.3605 | 6.8 nF | 5%                          | 50V    | PETP    | D....16  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....11 | 57.11.3152 | 1.5 kOhm | 2%, 0.25W                   | MF     |          | R....144   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W                   | MF       | R....144   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W | MF |
| C....24 | 59.05.2102 | 1 nF   | 2.5%                        | 50V    | PP      | D....17  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....12 | 57.11.3152 | 1.5 kOhm | 2%, 0.25W                   | MF     |          | R....147   | 57.11.3471 | 470 Ohm         | 2%, 0.25W                   | MF       | R....147   | 57.11.3471 | 470 Ohm         | 2%, 0.25W | MF |
| C....25 | 59.05.2102 | 1 nF   | 2.5%                        | 50V    | PP      | D....18  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....12 | 57.11.3152 | 1.5 kOhm | 2%, 0.25W                   | MF     |          | R....149   | 57.11.3220 | 22 Ohm          | 2%, 0.25W                   | MF       | R....149   | 57.11.3220 | 22 Ohm          | 2%, 0.25W | MF |
| C....26 | 59.06.0105 | 1 uF   | 10%                         | 50V    | PETP    | D....19  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....13 | 57.11.3392 | 3.9 kOhm | 2%, 0.25W                   | MF     |          | R....150   | 57.11.3220 | 22 Ohm          | 2%, 0.25W                   | MF       | R....150   | 57.11.3220 | 22 Ohm          | 2%, 0.25W | MF |
| C....27 | 59.06.0473 | 47 nF  | 10%                         | 50V    | PETP    | D....20  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....14 | 57.11.3392 | 3.9 kOhm | 2%, 0.25W                   | MF     |          | R....151   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W                   | MF       | R....151   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W | MF |
| C....28 | 59.06.0473 | 47 nF  | 10%                         | 50V    | PETP    | D....21  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....15 | 57.11.3182 | 1.8 kOhm | 2%, 0.25W                   | MF     |          | R....153   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W                   | MF       | R....153   | 57.11.3332 | 3.3 kOhm        | 2%, 0.25W | MF |
| C....29 | 59.22.3470 | 47 uF  | -20%                        | 10V    | EL      | D....22  | 50.04.1121 | 24 V                        | 5% 0.4W            | Zenec | R....18 | 58.01.8502 | 5 kOhm   | 10%, 0.5 W, PMG             |        | R....155 | 57.11.3471 | 470 Ohm    | 2%, 0.25W       | MF                          | R....155 | 57.11.3471 | 470 Ohm    | 2%, 0.25W       | MF        |    |
| C....30 | 59.05.1332 | 3.3 nF | 1%                          | 50V    | PP      | D....23  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....19 | 57.11.3821 | 820 Ohm  | 2%, 0.25W                   | MF     |          | R....157   | 57.11.3220 | 22 Ohm          | 2%, 0.25W                   | MF       | R....157   | 57.11.3220 | 22 Ohm          | 2%, 0.25W | MF |
| C....31 | 59.05.1332 | 3.3 nF | 1%                          | 50V    | PP      | D....24  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....20 | 57.11.3123 | 12 kOhm  | 2%, 0.25W                   | MF     |          | R....158   | 57.11.3220 | 22 Ohm          | 2%, 0.25W                   | MF       | R....158   | 57.11.3220 | 22 Ohm          | 2%, 0.25W | MF |
| C....32 | 59.05.2102 | 1 nF   | 2.5%                        | 50V    | PP      | D....25  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....21 | 57.11.3222 | 2.2 kOhm | 2%, 0.25W                   | MF     |          | R....159   | 57.11.3470 | 47 Ohm          | 2%, 0.25W                   | MF       | R....159   | 57.11.3470 | 47 Ohm          | 2%, 0.25W | MF |
| C....33 | 59.05.2102 | 1 nF   | 2.5%                        | 50V    | PP      | D....26  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....25 | 57.11.3433 | 43 kOhm  | 2%, 0.25W                   | MF     |          | R....160   | 57.11.3229 | 2.2 Ohm         | 2%, 0.25W                   | MF       | R....160   | 57.11.3229 | 2.2 Ohm         | 2%, 0.25W | MF |
| C....34 | 59.22.8479 | 4.7 uF | -20%                        | 35V    | EL      | D....27  | 50.04.0125 | 1N4448                      | 50V                | SI    | R....26 | 57.11.3392 | 3.9 kOhm | 2%, 0.25W                   | MF     |          | R....161   | 57.11.3470 | 47 Ohm          | 2%, 0.25W                   | MF       | R....161   | 57.11.3470 | 47 Ohm          | 2%, 0.25W | MF |
| C....35 | 59.22.8479 | 4.7 uF | -20%                        | 35V    | EL      | D....28  | 50.04.1114 | 10 V                        | 5% 0.4W            | Zenec | R....27 | 57.11.3432 | 4.3 kOhm | 2%, 0.25W                   | MF     |          | R....162   | 57.11.3472 | 4.7 kOhm        | 2%, 0.25W                   | MF       | R....162   | 57.11.3472 | 4.7 kOhm        | 2%, 0.25W | MF |
| C....36 | 59.06.0473 | 47 nF  | 10%                         | 50V    | PETP    |          |            |                             |                    |       | R....28 | 57.11.3101 | 100 Ohm  | 2%, 0.25W                   | MF     |          | R....163   | 57.11.3229 | 2.2 Ohm         | 2%, 0.25W                   | MF       | R....163   | 57.11.3229 | 2.2 Ohm         | 2%, 0.25W | MF |
| C....37 | 59.06.0473 | 47 nF  | 10%                         | 50V    | PETP    | IC....2  | 50.09.0105 | NE 5532                     | Dual Op. Amp.      | Sig   | R....46 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W                   | MF     |          | R....164   | 57.11.3102 | 1 kOhm          | 2%, 0.25W                   | MF       | R....164   | 57.11.3102 | 1 kOhm          | 2%, 0.25W | MF |
| C....38 | 59.06.0683 | 68 nF  | 10%                         | 50V    | PETP    | IC....5  | 50.09.0105 | NE 5532                     | Dual Op. Amp.      | Sig   | R....48 | 57.11.3473 | 47 kOhm  | 2%, 0.25W                   | MF     |          | R....165   | 57.11.3470 | 47 Ohm          | 2%, 0.25W                   | MF       | R....165   | 57.11.3470 | 47 Ohm          | 2%, 0.25W | MF |
| C....39 | 59.22.3470 | 47 uF  | -20%                        | 10V    | EL      | IC....6  | 50.09.0107 | RC 4559                     | Dual Op. Amp.      | Ra    | R....49 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W                   | MF     |          | R....166   | 57.11.3472 | 4.7 kOhm        | 2%, 0.25W                   | MF       | R....166   | 57.11.3472 | 4.7 kOhm        | 2%, 0.25W | MF |
| C....40 | 59.06.5474 | 470 nF | 5%                          | 50V    | PETP    | IC....7  | 50.09.0107 | RC 4559                     | Dual Op. Amp.      | Ra    | R....50 | 57.11.3132 | 1.3 kOhm | 2%, 0.25W                   | MF     |          | R....167   | 57.11.3680 | 68 Ohm          | 2%, 0.25W                   | MF       | R....167   | 57.11.3680 | 68 Ohm          | 2%, 0.25W | MF |
| C....41 | 59.34.2220 | 22 nF  | 10%                         | 50V    | PETP    | IC....8  | 50.07.0024 | MC 14052                    | CMOS Analog Switch | Not   | R....51 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W                   | MF     |          | R....169   |            |                 |                             |          |            |            |                 |           |    |

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| IND.  | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANU.F |
|-------|---------|--------------|----------|-----------------------------|--------|
| R...  | .265    | 57.11.3473   | 47 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .266    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .267    | 57.11.3682   | 6.8 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .268    | 57.11.3682   | 6.8 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .269    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .270    | 57.11.3472   | 4.7 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .271    | 57.11.3122   | 1.2 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .272    | 57.11.3223   | 22 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .273    | 57.11.3223   | 22 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .274    | 57.11.3473   | 47 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .275    | 57.11.3223   | 22 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .276    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .277    | 57.11.3339   | 3.3 Ohm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .278    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .279    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .280    | 57.11.3339   | 3.3 Ohm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .281    | 57.11.3222   | 2.2 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .282    | 57.11.3222   | 2.2 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .283    | 57.11.3339   | 3.3 Ohm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .284    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .285    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .286    | 57.11.3339   | 3.3 Ohm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .287    | 57.11.3472   | 4.7 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .288    | 57.11.3103   | 10 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .289    | 57.11.3471   | 470 Ohm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .290    | 57.11.3391   | 390 Ohm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .291    | 57.11.3152   | 1.5 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .292    | 57.92.1151   | 18 Ohm   | 2K $\Omega$ , 0.25W, FPC    |        |
| R...  | .293    | 57.11.3180   | 18 Ohm   | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .294    | 57.11.3470   | 47 Ohm   | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .295    | 57.11.3223   | 22 kOhm  | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .296    | 57.11.3105   | 1 kOhm   | 2K $\Omega$ , 0.25W, MF     |        |
| R...  | .297    | 57.11.3472   | 4.7 kOhm | 2K $\Omega$ , 0.25W, MF     |        |
| T.... | 2       | 1.022.451.00 | 1:0.62   | Line Input Trafo            | St     |
| T.... | 3       | 1.022.271.00 |          | Bias Trafo                  | St     |
| T.... | 4       | 1.022.272.00 |          | Bias Trafo                  | St     |

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| IND. | POS.NO.  | PART NO.     | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|----------|--------------|---------|-----------------------------|--------|
|      | T....6   | 1.022.355.00 |         | Line Output Trafo           | St     |
|      | TP....1  | 54.02.0320   |         | Plug 2.8x0.8                | AMP    |
|      | TP....2  | 54.02.0320   |         | Plug 2.8x0.8                | AMP    |
|      | TP....3  | 54.02.0320   |         | Plug 2.8x0.8                | AMP    |
|      | TP....4  | 54.02.0320   |         | Plug 2.8x0.8                | AMP    |
|      | TP....5  | 54.02.0320   |         | Plug 2.8x0.8                | AMP    |
|      | TP....6  | 54.02.0320   |         | Plug 2.8x0.8                | AMP    |
|      | TP....7  | 54.02.0320   |         | Plug 2.8x0.8                | AMP    |
|      | W....3   | 64.01.0106   |         | Wire Bridge                 |        |
|      | W....4   |              |         | not used                    |        |
|      | W....5   | 64.01.0106   |         | Wire Bridge                 |        |
|      | W....6   |              |         | not used                    |        |
|      | W....7   | 64.01.0106   |         | Wire Bridge                 |        |
|      | W....8   | 64.01.0106   |         | Wire Bridge                 |        |
|      | W....10  | 64.01.0106   |         | Wire Bridge                 |        |
|      | W....11  | 57.11.3000   |         | Wire Bridge                 |        |
|      | XIC...2  | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...5  | 53.03.0166   | 1C-Pole | IC Socket                   |        |
|      | XIC...6  | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...7  | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...8  | 53.03.0168   | 16-Pole | IC Socket                   |        |
|      | XIC...9  | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...10 | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...11 | 53.03.0165   | 20-Pole | IC Socket                   |        |
|      | XIC...12 | 53.03.0168   | 16-Pole | IC Socket                   |        |
|      | XIC...13 | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...14 | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...15 | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...16 | 53.03.0168   | 16-Pole | IC Socket                   |        |
|      | XIC...17 | 53.03.0168   | 16-Pole | IC Socket                   |        |
|      | XIC...18 | 53.03.0168   | 16-Pole | IC Socket                   |        |
|      | XIC...19 | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...20 | 53.03.0166   | 8-Pole  | IC Socket                   |        |
|      | XIC...21 | 53.03.0166   | 8-Pole  | IC Socket                   |        |

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| IND. | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|---------|------------|---------|-----------------------------|--------|
|      | XIC-.22 | 53.03.0166 | 8-Pole  | IC Socket                   |        |
|      | XIC-.23 | 53.03.0165 | 20-Pole | IC Socket                   |        |
|      | XIC-.24 | 53.03.0166 | 8-Pole  | IC Socket                   |        |
|      | XIC-.25 | 53.03.0166 | 8-Pole  | IC Socket                   |        |
|      | XIC-.26 | 53.03.0168 | 16-Pole | IC Socket                   |        |
|      | XIC-.27 | 53.03.0166 | 8-Pole  | IC Socket                   |        |

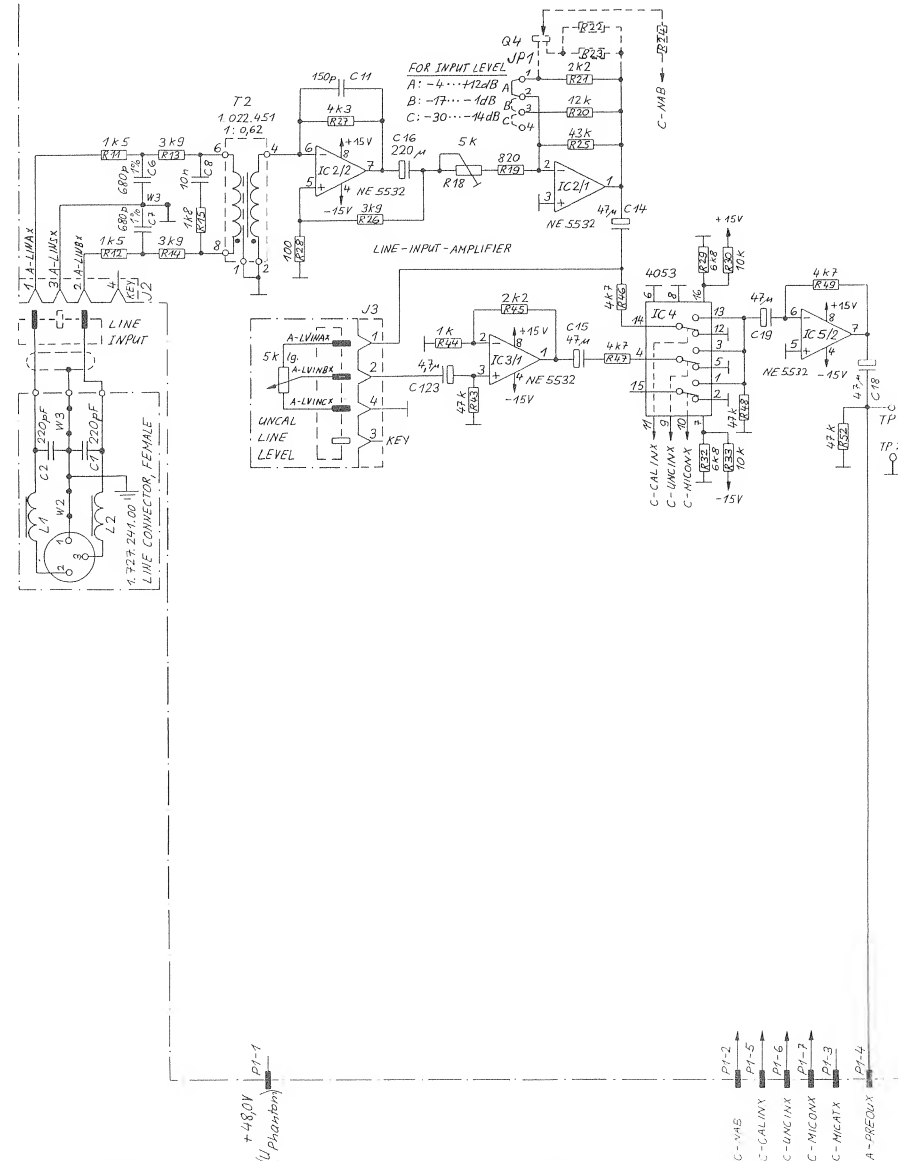
Cer = Ceramic      EL = Electrolytic      PETP = Polyeteer  
PP = Polypropylen      MF = Metal Film      SI = Silicon

MANUFACTURER: ADI = Analog Devices Inc.      Mot = Motorola  
NS = National Semiconductore      Ra = Raytheon  
Sig = Signetice      St = Studer

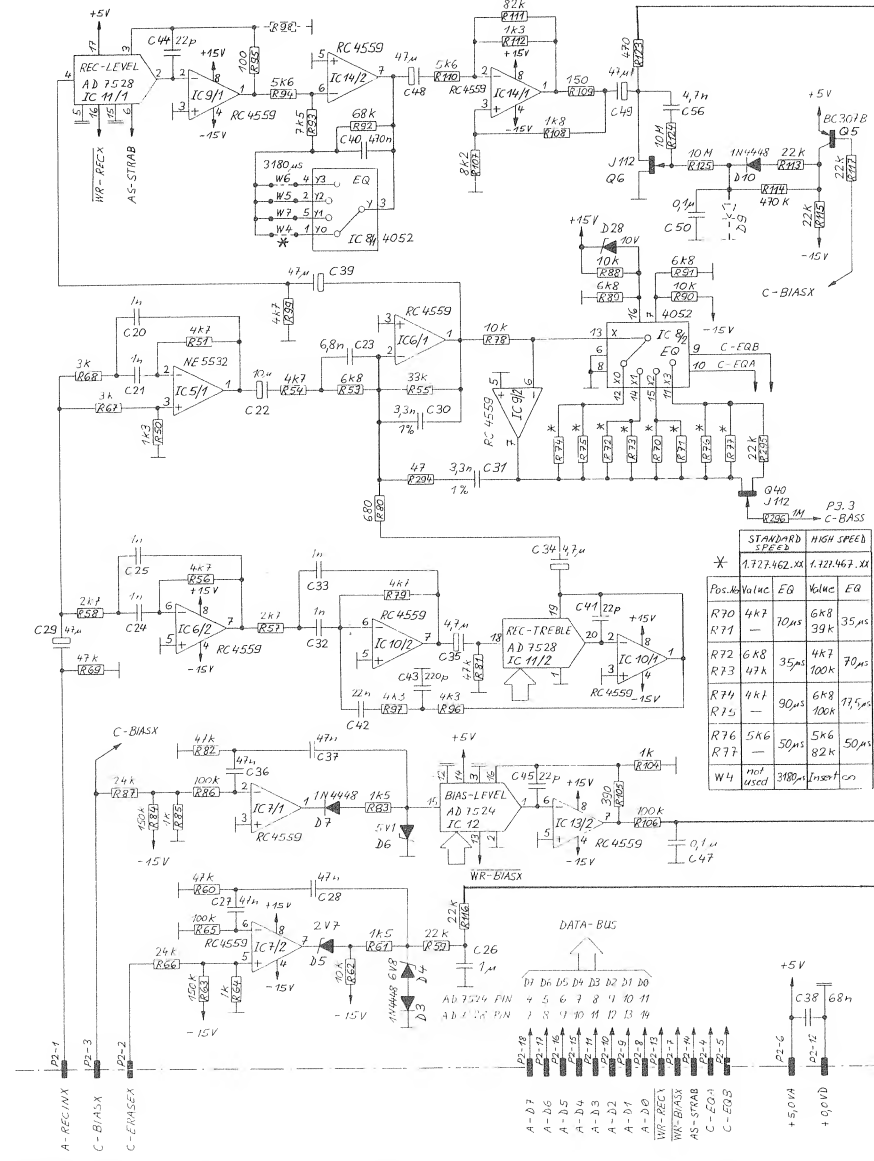
ORIG 90/03/12

STUDER (00) 90/03/12 GP AUDIO ELECTRONICS BOARD TD PL 1.727.461.84 PAGE 15

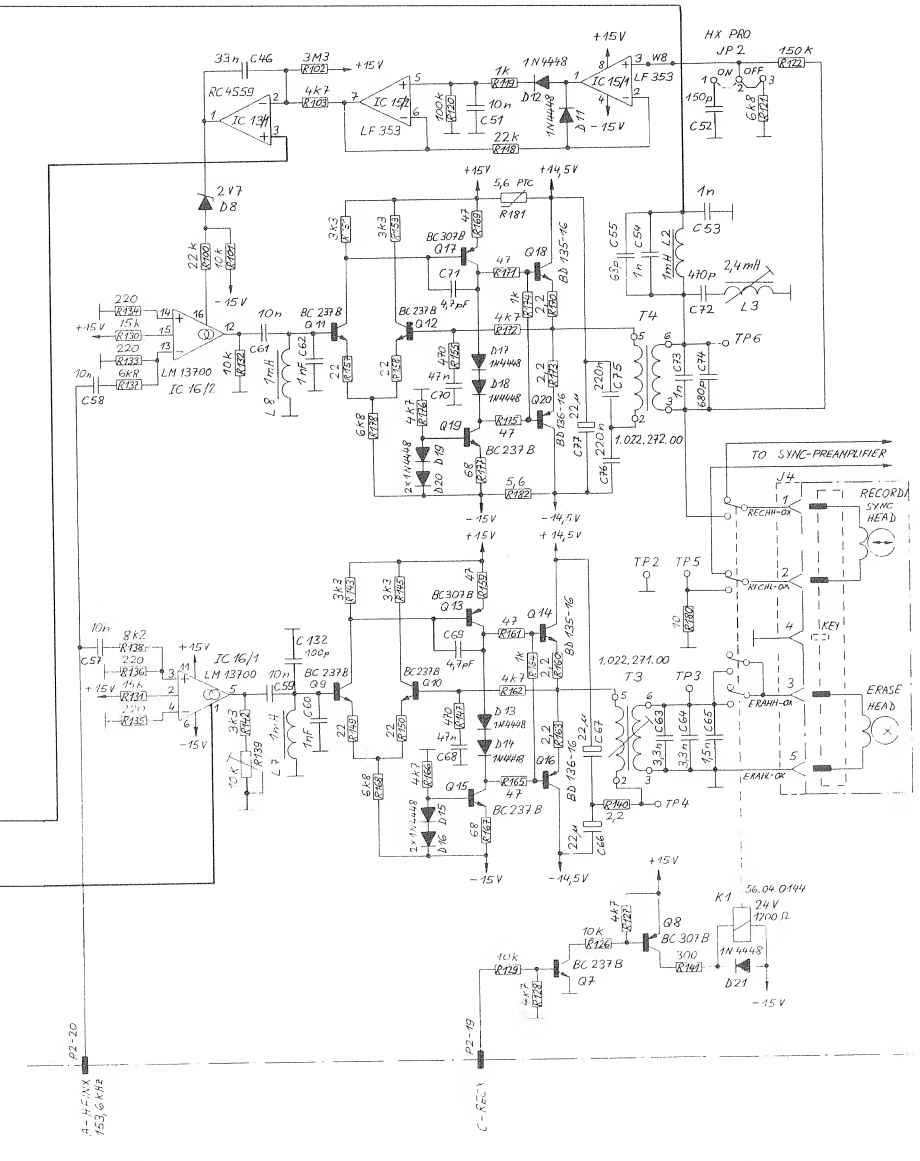
**AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.83**  
**-AUDIO ELECTRONICS BOARD 2/2 VUK,HS 1.727.467.82**



|           |                                    |                 |
|-----------|------------------------------------|-----------------|
| 9.7.89 GP | A 807 GR 41/42                     | PAGE 1 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD 2/2 VUK    | SC 1.727.462.83 |
|           | AUDIO ELECTRONICS BOARD 2/2 VUK HS | 1.727.467.82    |

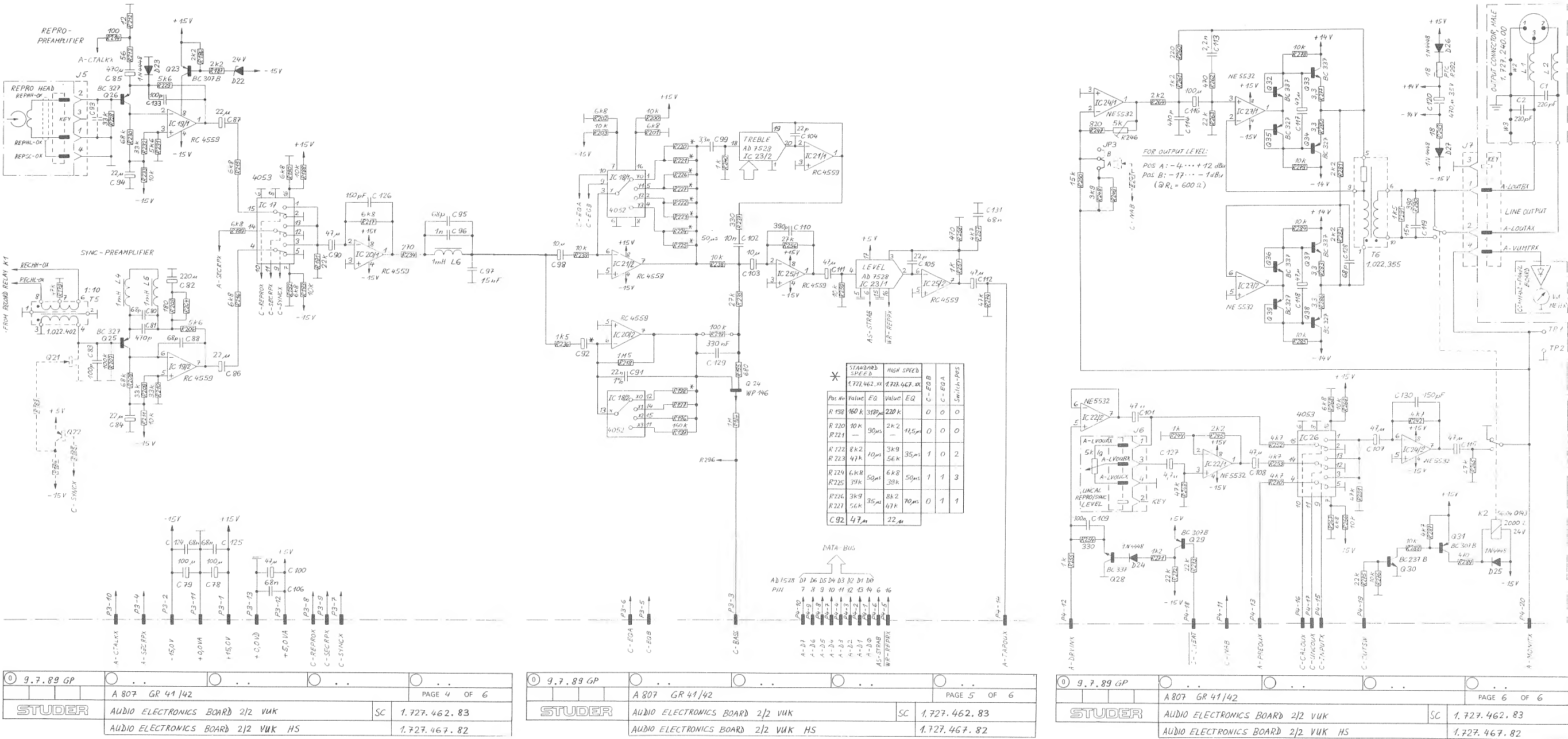


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|-----------|------------------------------------|-----------------|
| 9.7.89 GP | A 807 GR 41/42                     | PAGE 2 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD 2/2 VUK    | SC 1.727.462.83 |
|           | AUDIO ELECTRONICS BOARD 2/2 VUK HS | 1.727.467.82    |



|           |                                    |                 |
|-----------|------------------------------------|-----------------|
| 9.7.89 GP | A 807 GR 41/42                     | PAGE 3 OF 6     |
| STUDER    | AUDIO ELECTRONICS BOARD 2/2 VUK    | SC 1.727.462.83 |
|           | AUDIO ELECTRONICS BOARD 2/2 VUK HS | 1.727.467.82    |

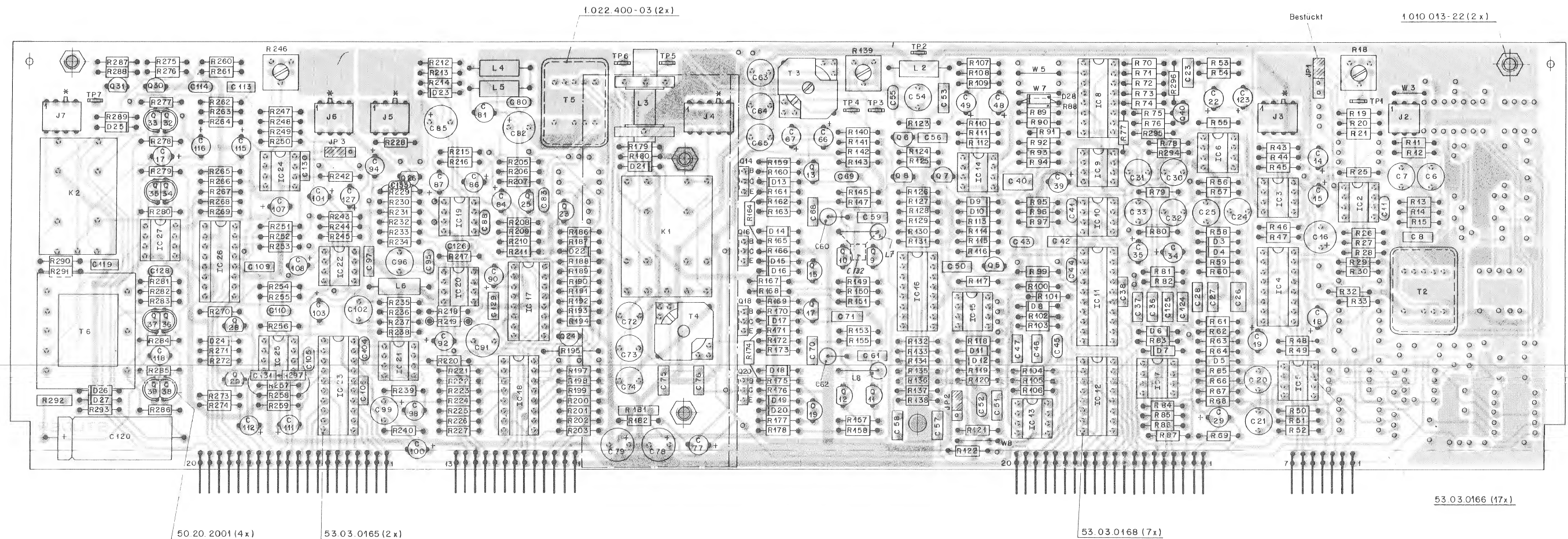
AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.83  
-AUDIO ELECTRONICS BOARD 2/2 VUK,HS 1.727.467.82





AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.83

-AUDIO ELECTRONICS BOARD 2/2 VUK,HS 1.727.467.82



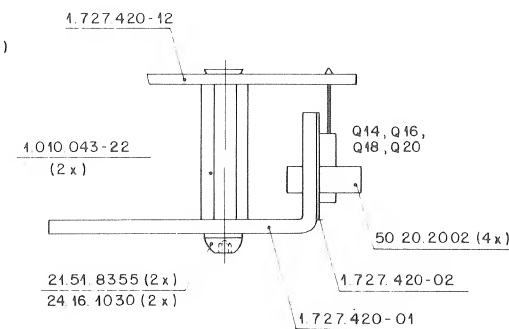
R18 = INPUT LEVEL ADJUSTMENT  
 R139 = ERASE VOLTAGE ADJUSTMENT  
 R246 = OUTPUT LEVEL ADJUSTMENT  
 L3 = BIAS TRAP  
 T3 = ERASE HEAD CIRCUIT

JP1 INPUT LEVEL SENSITIVITY  
 JP2 HX PRO: A = ON, B = OFF  
 JP3 OUTPUT LEVEL SENSITIVITY

TP1 RECORD AMPLIFIER SIGNAL (0.775 V = 0 VU)  
 TP2 0.0 V  
 TP3 VOLTAGE ON ERASE HEAD  
 TP4 PRIMARY CURRENT ON ERASE TRANSFORMER  
 TP5 BIAS CURRENT ON 10  $\Omega$   
 TP6 REJECTOR FILTER ADJUSTMENT  
 TP7 VU METER SIGNAL (0.775 V = 0 VU)

FACTORY STANDARD SETTING

R219 auf Sockel 53.03.0228 (2x)



\* Codierung: Schalldraht 64 01 0108  $\phi$  0,8 x 8 mm  
 (muss 1mm vorstehen)

Schilder 1.727.462-10 / 43.01.0108  
 aufgeklebt nach Fabrikationsmuster



STUDER A807 MKII

AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.83

| IND.    | POS.NO.    | PART NO. | VALUE        | SPECIFICATIONS / EQUIVALENT | MANUF.   | IND.       | POS.NO.    | PART NO.       | VALUE        | SPECIFICATIONS / EQUIVALENT | MANUF.     | IND.       | POS.NO.               | PART NO.       | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF.     | IND.          | POS.NO.       | PART NO.   | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF.        |
|---------|------------|----------|--------------|-----------------------------|----------|------------|------------|----------------|--------------|-----------------------------|------------|------------|-----------------------|----------------|---------|-----------------------------|------------|---------------|---------------|------------|------------|-----------------------------|---------------|
| C....6  | 59.05.1681 | 680 pF   | 1X           | 50V PP                      |          | C....124   | 59.06.0683 | 68 nF          | 10X 50V PETP |                             | Q....8     | 50.03.0515 | BC307B                | BC557B, BC560B | PNP     | R...101                     | 57.11.3103 | 10 kOhm       | 2X, 0.25W, MF | R...101    | 57.11.3103 | 10 kOhm                     | 2X, 0.25W, MF |
| C....7  | 59.05.1681 | 680 pF   | 1X           | 50V PP                      |          | C....125   | 59.06.0683 | 68 nF          | 10X 50V PETP |                             | Q....9     | 50.03.0436 | BC237B                | BC547B, BC550B | NPN     | R...102                     | 57.11.5335 | 3.3 kOhm      | 5X, 0.25W, MF | R...102    | 57.11.5335 | 3.3 kOhm                    | 5X, 0.25W, MF |
| C....8  | 59.06.0103 | 10 nF    | 10X 50V PETP |                             | C....126 | 59.34.4151 | 150 pF     | 10X 50V Cer    |              | Q....10                     | 50.03.0436 | BC237B     | BC547B, BC550B        | NPN            | R...103 | 57.11.3472                  | 4.7 kOhm   | 2X, 0.25W, MF | R...103       | 57.11.3472 | 4.7 kOhm   | 2X, 0.25W, MF               |               |
| C....11 | 59.34.4151 | 150 pF   | 10X 50V Cer  |                             | C....127 | 59.22.8479 | 4.7 uF     | -20X 35V EL    |              | Q....11                     | 50.03.0436 | BC237B     | BC547B, BC550B        | NPN            | R...104 | 57.11.3102                  | 1 kOhm     | 2X, 0.25W, MF | R...104       | 57.11.3102 | 1 kOhm     | 2X, 0.25W, MF               |               |
| C....14 | 59.22.3470 | 47 uF    | -20X 10V EL  |                             | C....128 | 59.34.4680 | 68 pF      | 10X 50V Cer    |              | Q....12                     | 50.03.0436 | BC237B     | BC547B, BC550B        | NPN            | R...105 | 57.11.3391                  | 390 Ohm    | 2X, 0.25W, MF | R...105       | 57.11.3391 | 390 Ohm    | 2X, 0.25W, MF               |               |
| C....15 | 59.22.3470 | 47 uF    | -20X 10V EL  |                             | C....129 | 59.06.5334 | 330 nF     | 5X 50V PETP    |              | Q....13                     | 50.03.0515 | BC307B     | BC557B, BC560B        | PNP            | R...106 | 57.11.3104                  | 100 kOhm   | 2X, 0.25W, MF | R...106       | 57.11.3104 | 100 kOhm   | 2X, 0.25W, MF               |               |
| C....16 | 59.22.2221 | 220 uF   | -20X 6.3V EL |                             | C....130 | 59.34.4151 | 150 pF     | 10X 50V Cer    |              | Q....14                     | 50.03.0495 | BD135-16   |                       | NPN            | R...107 | 57.11.3822                  | 8.2 kOhm   | 2X, 0.25W, MF | R...107       | 57.11.3822 | 8.2 kOhm   | 2X, 0.25W, MF               |               |
| C....18 | 59.22.3470 | 47 uF    | -20X 10V EL  |                             | C....131 | 59.06.0683 | 68 nF      | 10X 50V PETP   |              | Q....15                     | 50.03.0436 | BC237B     | BC547B, BC550B        | NPN            | R...108 | 57.11.3162                  | 1.8 kOhm   | 2X, 0.25W, MF | R...108       | 57.11.3162 | 1.8 kOhm   | 2X, 0.25W, MF               |               |
| C....19 | 59.22.3470 | 47 nF    | -20X 10V EL  |                             | C....132 | 59.34.4101 | 100 pF     | 5X 50V Cer     |              | Q....16                     | 50.03.0510 | BD136-16   |                       | PNP            | R...109 | 57.11.3151                  | 150 Ohm    | 2X, 0.25W, MF | R...109       | 57.11.3151 | 150 Ohm    | 2X, 0.25W, MF               |               |
| C....20 | 59.05.2102 | 1 nF     | 2.5X 50V PP  |                             | C....133 | 59.34.4101 | 100 pF     | 5X 50V Cer     |              | Q....17                     | 50.03.0515 | BC307B     | BC557B, BC560B        | PNP            | R...110 | 57.11.3562                  | 5.6 kOhm   | 2X, 0.25W, MF | R...110       | 57.11.3562 | 5.6 kOhm   | 2X, 0.25W, MF               |               |
| C....21 | 59.05.2102 | 1 nF     | 2.5X 50V PP  |                             | D....3   | 50.04.0125 | 1N4448     | 50V SI         |              | Q....18                     | 50.03.0495 | BD135-16   |                       | NPN            | R...111 | 57.11.3823                  | 82 kOhm    | 2X, 0.25W, MF | R...111       | 57.11.3823 | 82 kOhm    | 2X, 0.25W, MF               |               |
| C....22 | 59.22.6100 | 10 nF    | -20X 35V EL  |                             | D....4   | 50.04.1102 | 6.8 V      | 5X 0.4W Zener  |              | Q....19                     | 50.03.0436 | BC237B     | BC547B, BC550B        | NPN            | R...112 | 57.11.3132                  | 1.3 kOhm   | 2X, 0.25W, MF | R...112       | 57.11.3132 | 1.3 kOhm   | 2X, 0.25W, MF               |               |
| C....23 | 59.06.5682 | 6.8 nF   | 5X 50V PETP  |                             | D....5   | 50.04.1106 | 2.7 V      | 5X, 0.4W Zener |              | Q....20                     | 50.03.0510 | BD136-16   |                       | PNP            | R...113 | 57.11.3223                  | 22 kOhm    | 2X, 0.25W, MF | R...113       | 57.11.3223 | 22 kOhm    | 2X, 0.25W, MF               |               |
| C....24 | 59.05.2102 | 1 nF     | 2.5X 50V PP  |                             | D....6   | 50.04.1112 | 5.1 V      | 5X, 0.4W Zener |              | Q....21                     | not used   |            | not used              |                | R...114 | 57.11.3474                  | 470 kOhm   | 2X, 0.25W, MF | R...114       | 57.11.3474 | 470 kOhm   | 2X, 0.25W, MF               |               |
| C....25 | 59.05.2102 | 1 nF     | 2.5X 50V PP  |                             | D....7   | 50.04.0125 | 1N4448     | 50V SI         |              | Q....22                     | not used   |            | not used              |                | R...115 | 57.11.3223                  | 22 kOhm    | 2X, 0.25W, MF | R...115       | 57.11.3223 | 22 kOhm    | 2X, 0.25W, MF               |               |
| C....26 | 59.06.0105 | 1 nF     | 10X 50V PETP |                             | D....8   | 50.04.1106 | 2.7 V      | 5X, 0.4W Zener |              | Q....23                     | 50.03.0515 | BC307B     | BC557B, BC560B        | PNP            | R...116 | 57.11.3223                  | 22 kOhm    | 2X, 0.25W, MF | R...116       | 57.11.3223 | 22 kOhm    | 2X, 0.25W, MF               |               |
| C....27 | 59.06.0473 | 47 nF    | 10X 50V PETP |                             | D....9   | 50.04.1106 | not used   | not used       |              | Q....24                     | 50.03.0329 | WFL46      |                       | FET            | R...117 | 57.11.3223                  | 22 kOhm    | 2X, 0.25W, MF | R...117       | 57.11.3223 | 22 kOhm    | 2X, 0.25W, MF               |               |
| C....28 | 59.06.0473 | 47 nF    | 10X 50V PETP |                             | D....10  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....25                     | 50.03.0625 | BC327      |                       | PMP            | R...118 | 57.11.3223                  | 22 kOhm    | 2X, 0.25W, MF | R...118       | 57.11.3223 | 22 kOhm    | 2X, 0.25W, MF               |               |
| C....29 | 59.22.3470 | 47 uF    | -20X 10V EL  |                             | D....11  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....26                     | 50.03.0625 | BC327      |                       | PMP            | R...119 | 57.11.3102                  | 1 kOhm     | 2X, 0.25W, MF | R...119       | 57.11.3102 | 1 kOhm     | 2X, 0.25W, MF               |               |
| C....30 | 59.05.1332 | 3.3 nF   | 1X 50V PP    |                             | D....12  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....28                     | 50.03.0340 | BC337-25   |                       | NPN            | R...120 | 57.11.3104                  | 100 kOhm   | 2X, 0.25W, MF | R...120       | 57.11.3104 | 100 kOhm   | 2X, 0.25W, MF               |               |
| C....31 | 59.05.1332 | 3.3 nF   | 1X 50V PP    |                             | D....13  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....29                     | 50.03.0515 | BC307B     | BC557B, BC560B        | NPN            | R...121 | 57.11.3682                  | 6.8 kOhm   | 2X, 0.25W, MF | R...121       | 57.11.3682 | 6.8 kOhm   | 2X, 0.25W, MF               |               |
| C....32 | 59.05.2102 | 1 nF     | 2.5X 50V PP  |                             | D....14  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....30                     | 50.03.0436 | BC237B     | BC547B, BC550B        | NPN            | R...122 | 57.11.3154                  | 150 kOhm   | 2X, 0.25W, MF | R...122       | 57.11.3154 | 150 kOhm   | 2X, 0.25W, MF               |               |
| C....33 | 59.05.2102 | 1 nF     | 2.5X 50V PP  |                             | D....15  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....31                     | 50.03.0515 | BC307B     | BC557B, BC560B        | NPN            | R...123 | 57.11.3471                  | 470 Ohm    | 2X, 0.25W, MF | R...123       | 57.11.3471 | 470 Ohm    | 2X, 0.25W, MF               |               |
| C....34 | 59.22.8479 | 4.7 uF   | -20X 35V EL  |                             | D....16  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....32                     | 50.03.0516 | BC337      | matched with Q33, RPN |                | R...124 | 57.11.5106                  | 10 kOhm    | 5X, 0.25W, MF | R...124       | 57.11.5106 | 10 kOhm    | 5X, 0.25W, MF               |               |
| C....35 | 59.22.8479 | 4.7 uF   | -20X 35V EL  |                             | D....17  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....33                     | 50.03.0516 | BC337      | matched with Q32, RPN |                | R...125 | 57.11.5106                  | 10 kOhm    | 5X, 0.25W, MF | R...125       | 57.11.5106 | 10 kOhm    | 5X, 0.25W, MF               |               |
| C....36 | 59.06.0473 | 47 nF    | 10X 50V PETP |                             | D....18  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....34                     | 50.03.0625 | BC327      | matched with Q35, PNP |                | R...126 | 57.11.3103                  | 10 kOhm    | 2X, 0.25W, MF | R...126       | 57.11.3103 | 10 kOhm    | 2X, 0.25W, MF               |               |
| C....37 | 59.06.0473 | 47 nF    | 10X 50V PETP |                             | D....19  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....35                     | 50.03.0625 | BC327      | matched with Q34, PNP |                | R...127 | 57.11.3472                  | 4.7 kOhm   | 2X, 0.25W, MF | R...127       | 57.11.3472 | 4.7 kOhm   | 2X, 0.25W, MF               |               |
| C....38 | 59.06.0683 | 68 nF    | 10X 50V PETP |                             | D....19  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....36                     | 50.03.0516 | BC337      | matched with Q37, RPN |                | R...128 | 57.11.3472                  | 4.7 kOhm   | 2X, 0.25W, MF | R...128       | 57.11.3472 | 4.7 kOhm   | 2X, 0.25W, MF               |               |
| C....39 | 59.22.3470 | 47 uF    | -20X 10V EL  |                             | D....20  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....37                     | 50.03.0516 | BC337      | matched with Q36, PNP |                | R...129 | 57.11.3103                  | 10 kOhm    | 2X, 0.25W, MF | R...129       | 57.11.3103 | 10 kOhm    | 2X, 0.25W, MF               |               |
| C....40 | 59.06.5474 | 470 nF   | 5X 50V PETP  |                             | D....21  | 50.04.0125 | 1N4448     | 50V SI         |              | Q....38                     | 50.03.0625 | BC327      | matched with Q39, PNP |                | R...130 | 57.11.3153                  | 15 kOhm    | 2X, 0.25W, MF | R...130       | 57.11.3153 | 15 kOhm    | 2X, 0.25W, MF               |               |
| C....41 | 59.34.2220 | 22 pF    | 10X 50V Cer  |                             | D....22  | 50.04.1121 | 24 V       | 5X 0.4W Zener  |              | Q....39                     | 50.03.0625 | BC327      | matched with Q39, PNP |                | R...131 | 57.11.3153                  | 15 kOhm    | 2X, 0.25W, MF | R...131       | 57.11.3153 | 15 kOhm    | 2X, 0.25W, MF               |               |
| C....42 | 59.0       |          |              |                             |          |            |            |                |              |                             |            |            |                       |                |         |                             |            |               |               |            |            |                             |               |

**AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.83**

| IND.   | POS.NO.    | PART NO. | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.                                    | POS.NO.    | PART NO.          | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. |                |  |
|--------|------------|----------|----------------|-----------------------------|--------|---|------------|-------------------|-----------|-----------------------------|--------|----------------|--|
| R..218 | 57.11.5155 | 1.5 MOhm | 5%             | 0.25W, MF                   |        | XIC..11                                 | 53.03.0165 | 20-Pole           | IC Socket |                             |        |                |  |
| R..219 | 57.11.3104 | 100 kOhm | 2%, 0.25W, MF  | with socket                 |        | XIC..12                                 | 53.03.0168 | 16-Pole           | IC Socket |                             |        |                |  |
| R..220 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..13                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..221 |            |          | not used       |                             |        | XIC..14                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..222 | 57.11.3922 | 8.2 kOhm | 2%, 0.25W, MF  |                             |        | XIC..15                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..223 | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..16                                 | 53.03.0168 | 16-Pole           | IC Socket |                             |        |                |  |
| R..224 | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF  |                             |        | XIC..17                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..225 | 57.11.3393 | 39 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..18                                 | 53.03.0168 | 16-Pole           | IC Socket |                             |        |                |  |
| R..226 | 57.11.3392 | 3.9 kOhm | 2%, 0.25W, MF  |                             |        | XIC..19                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..227 | 57.11.3563 | 56 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..20                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..228 | 57.11.3333 | 33 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..21                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..229 | 57.11.3562 | 5.6 kOhm | 2%, 0.25W, MF  |                             |        | XIC..22                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..230 | 57.11.3683 | 68 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..23                                 | 53.03.0165 | 20-Pole           | IC Socket |                             |        |                |  |
| R..231 | 57.11.3562 | 5.6 kOhm | 2%, 0.25W, MF  |                             |        | XIC..24                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..232 | 57.11.3333 | 33 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..25                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..233 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |        | XIC..26                                 | 53.03.0168 | 16-Pole           | IC Socket |                             |        |                |  |
| R..234 | 57.11.3271 | 270 Ohm  | 2 % 0.25W, MF  |                             |        | XIC..27                                 | 53.03.0166 | 8-Pole            | IC Socket |                             |        |                |  |
| R..235 | 57.11.3273 | 27 kOhm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..236 | 57.11.3152 | 1.5 kOhm | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..237 | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..238 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..239 | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..240 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..241 |            |          | not used       |                             |        |   |            |                   |           |                             |        |                |  |
| R..242 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..243 | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..244 | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..245 | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..246 | 58.01.8502 | 5 kOhm   | 10% 0.5 W, PMG |                             |        |   |            |                   |           |                             |        |                |  |
| R..247 | 57.11.3821 | 820 Ohm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..248 | 57.11.3392 | 3.9 kOhm | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..249 |            |          | not used       |                             |        |   |            |                   |           |                             |        |                |  |
| R..250 | 57.11.3153 | 15 kOhm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..251 | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..252 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..253 | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
| R..254 | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF  |                             |        |   |            |                   |           |                             |        |                |  |
|        |            |          |                |                             |        | Cer = Ceramic                           |            | EL = Electrolytic |           | PETP = Polyester            |        |                |  |
|        |            |          |                |                             |        | PP = Polypropylen                       |            | MF = Metal Film   |           | SI = Silicon                |        |                |  |
|        |            |          |                |                             |        | MANUFACTURER: ADI = Analog Devices Inc. |            |                   |           |                             |        | Mot = Motorola |  |
|        |            |          |                |                             |        | NS = National Semiconductors            |            |                   |           |                             |        | Ra = Raytheon  |  |
|        |            |          |                |                             |        | Sig = Signetics                         |            |                   |           |                             |        | St = Studer    |  |
|        |            |          |                |                             |        | ORIG 89/07/03                           |            |                   |           |                             |        |                |  |

STUDER (OO) 89/07/03 GP AUDIO ELECTRONICS BOARD 2/2VUK PL 1.727.462.83 PAGE 13

STUDER (OO) 89/07/03 GP AUDIO ELECTRONICS BOARD 2/2VUK PL 1.727.462.83 PAGE 16

| IND. | POS. NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|----------|------------|----------|-----------------------------|--------|
| R... | 255      | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF               |        |
| R... | 256      | 57.11.3273 | 27 kOhm  | 2K, 0.25W, MF               |        |
| R... | 257      | 57.11.3102 | 1 kOhm   | 2K, 0.25W, MF               |        |
| R... | 258      | 57.11.3471 | 470 Ohm  | 2K, 0.25W, MF               |        |
| R... | 259      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 260      | 57.11.3221 | 220 Ohm  | 2K, 0.25W, MF               |        |
| R... | 261      | 57.11.3122 | 1.2 kOhm | 2K, 0.25W, MF               |        |
| R... | 262      | 57.11.3471 | 470 Ohm  | 2K, 0.25W, MF               |        |
| R... | 263      | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF               |        |
| R... | 264      | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF               |        |
| R... | 265      | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF               |        |
| R... | 266      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 267      | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF               |        |
| R... | 268      | 57.11.3682 | 6.8 kOhm | 2K, 0.25W, MF               |        |
| R... | 269      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 270      | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF               |        |
| R... | 271      | 57.11.3122 | 1.2 kOhm | 2K, 0.25W, MF               |        |
| R... | 272      | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF               |        |
| R... | 273      | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF               |        |
| R... | 274      | 57.11.3473 | 47 kOhm  | 2K, 0.25W, MF               |        |
| R... | 275      | 57.11.3223 | 22 kOhm  | 2K, 0.25W, MF               |        |
| R... | 276      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 277      | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF               |        |
| R... | 278      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 279      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 280      | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF               |        |
| R... | 281      | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF               |        |
| R... | 282      | 57.11.3222 | 2.2 kOhm | 2K, 0.25W, MF               |        |
| R... | 283      | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF               |        |
| R... | 284      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 285      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 286      | 57.11.3339 | 3.3 Ohm  | 2K, 0.25W, MF               |        |
| R... | 287      | 57.11.3472 | 4.7 kOhm | 2K, 0.25W, MF               |        |
| R... | 288      | 57.11.3103 | 10 kOhm  | 2K, 0.25W, MF               |        |
| R... | 289      | 57.11.3471 | 470 Ohm  | 2K, 0.25W, MF               |        |
| R... | 290      | 57.11.3391 | 390 Ohm  | 2K, 0.25W, MF               |        |
| R... | 291      | 57.11.3152 | 1.5 kOhm | 2K, 0.25W, MF               |        |

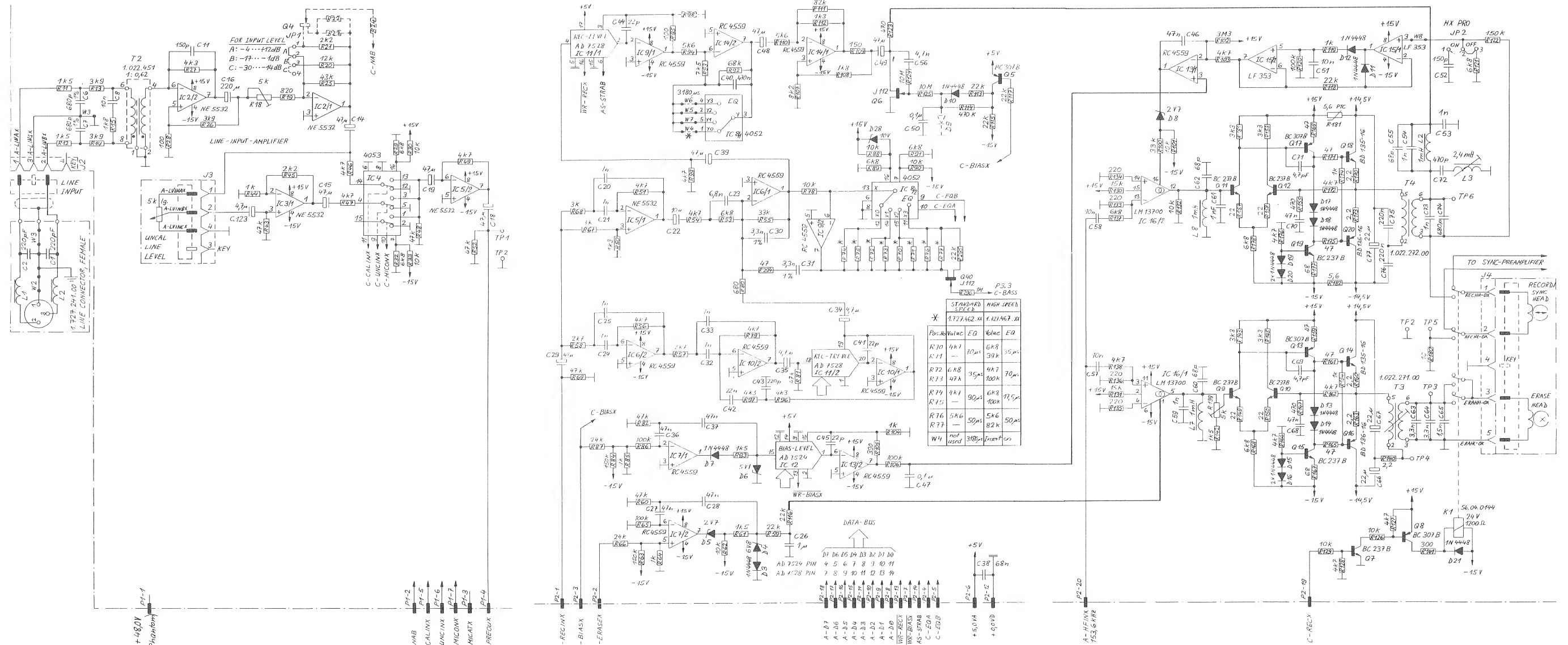
S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD 2/2VUK PL 1.727.462.83 PAGE 14

| IND.   | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--------|---------|--------------|----------|-----------------------------|--------|
| R...   | 292     | 57.92.1151   | 18 Ohm   | 150mA, PTC                  |        |
| R...   | 293     | 57.11.3180   | 18 Ohm   | 2K, 0.25W, MF               |        |
| R...   | 294     | 57.11.3470   | 47 Ohm   | 2K, 0.25W, MF               |        |
| R...   | 295     | 57.11.3223   | 22 kOhm  | 2K, 0.25W, MF               |        |
| R...   | 296     | 57.11.3105   | 1 MOhm   | 2K, 0.25W, MF               |        |
| R...   | 297     | 57.11.3472   | 4.7 kOhm | 2K, 0.25W, MF               |        |
| T....  | 2       | 1.022.451.00 | 1:10:62  | Line Input Trafo            | St     |
| T....  | 3       | 1.022.271.00 |          | Erase Trafo                 | St     |
| T....  | 4       | 1.022.272.00 |          | Bias Trafo                  | St     |
| T....  | 5       | 1.022.402.00 | 1:10     | Sync Trafo                  | St     |
| T....  | 6       | 1.022.355.00 |          | Line Output Trafo           | St     |
| TP.... | 1       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP.... | 2       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP.... | 3       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP.... | 4       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP.... | 5       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP.... | 6       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP.... | 7       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| W....  | 3       | 64.01.0106   |          | Wire Bridge                 |        |
| W....  | 4       |              |          | not used                    |        |
| W....  | 5       | 64.01.0106   |          | Wire Bridge                 |        |
| W....  | 6       |              |          | not used                    |        |
| W....  | 7       | 64.01.0106   |          | Wire Bridge                 |        |
| W....  | 8       | 64.01.0106   |          | Wire Bridge                 |        |
| XIC... | 2       | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC... | 3       | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC... | 4       | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC... | 5       | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC... | 6       | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC... | 7       | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC... | 8       | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC... | 9       | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC... | 10      | 53.03.0166   | 8-Pole   | IC Socket                   |        |

S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD 2/2VUK PL 1.727.462.83 PAGE 15

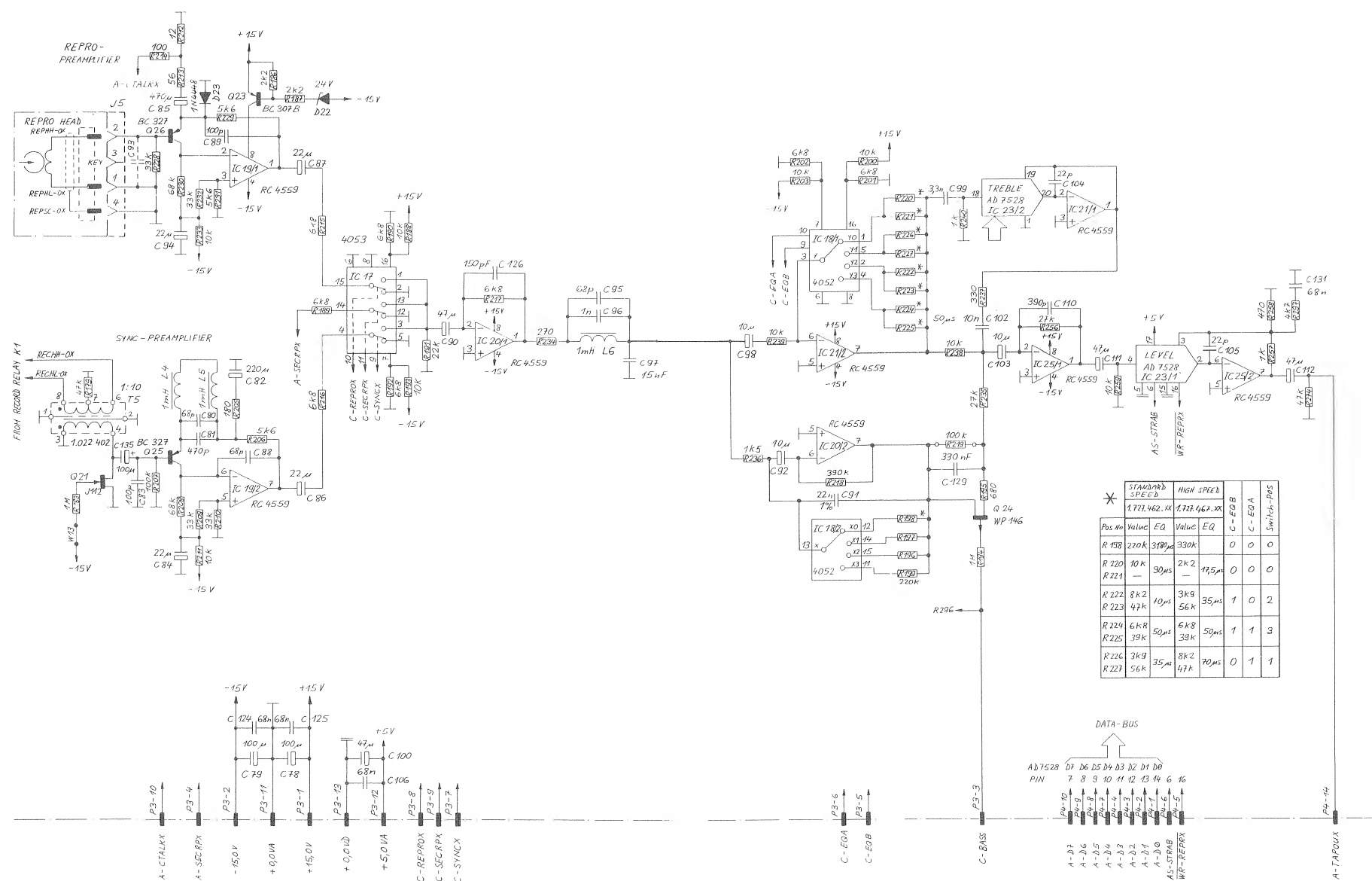
## AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.84

## -AUDIO ELECTRONICS BOARD 2/2 VUK,HS 1.727.467.83



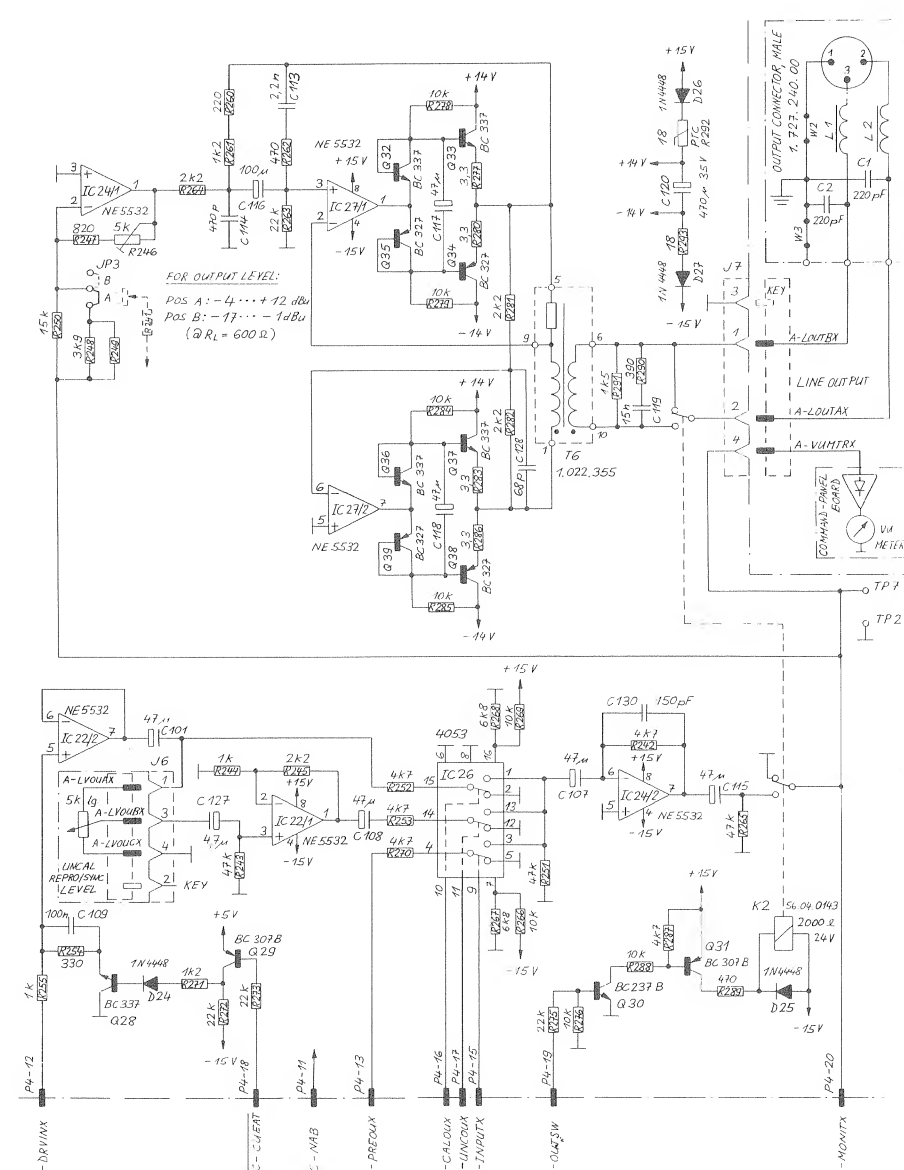
**AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.84**

**-AUDIO ELECTRONICS BOARD 2/2 VUK,HS 1.727.467.83**



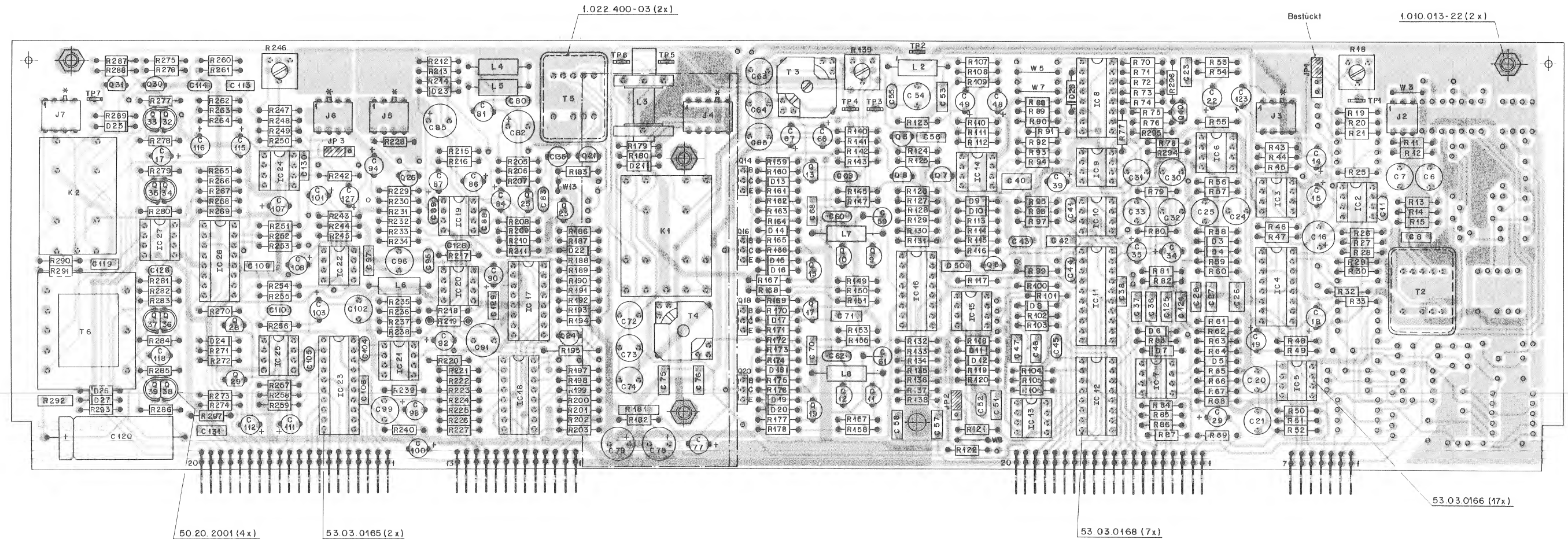
|              |                                    |       |              |             |
|--------------|------------------------------------|-------|--------------|-------------|
| 0 22.3.90 GP | 0 . .                              | 0 . . | 0 . .        | 0 . .       |
|              | A 807 GR 41 /42                    |       |              | PAGE 4 OF 6 |
| STUDER       | AUDIO ELECTRONICS BOARD 2/2 VUK    | SC    | 1.727.462.84 |             |
|              | AUDIO ELECTRONICS BOARD 2/2 VUK HS |       | 1.727.467.83 |             |

|        |             |                                    |                       |                       |                       |                       |                       |
|--------|-------------|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 0      | 22.3, 90 GP | <input type="radio"/>              | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
|        |             | A 807                              | GR 41/42              |                       |                       | PAGE 5                | OF 6                  |
| STUDER |             | AUDIO ELECTRONICS BOARD 2/2 YUK    |                       |                       |                       | SC                    | 1,727,462.84          |
|        |             | AUDIO ELECTRONICS BOARD 2/2 YUK HS |                       |                       |                       |                       | 1,727,467.83          |



|            |                                    |                 |
|------------|------------------------------------|-----------------|
| 22.3.90 GP | A807 GR 41/42                      | PAGE 6 OF 6     |
| STUDER     | AUDIO ELECTRONICS BOARD 212 VUK    | SC 1.727.462.84 |
|            | AUDIO ELECTRONICS BOARD 212 VUK HS | 1.727.462.84    |

AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.84  
-AUDIO ELECTRONICS BOARD 2/2 VUK,HS 1.727.467.83



R18 = INPUT LEVEL ADJUSTMENT  
R139 = ERASE VOLTAGE ADJUSTMENT  
R246 = OUTPUT LEVEL ADJUSTMENT  
L3 = BIAS TRAP  
T3 = ERASE HEAD CIRCUIT

JP1 INPUT LEVEL SENSITIVITY  
JP2 HX PRO: A = ON B = OFF  
JP3 OUTPUT LEVEL SENSITIVITY

TP1 RECORD AMPLIFIER SIGNAL (0.775 V = 0 VU)  
TP2 0.0 V  
TP3 VOLTAGE ON ERASE HEAD  
TP4 PRIMARY CURRENT ON ERASE TRANSFORMER  
TP5 BIAS CURRENT ON 10 Ω  
TP6 REJECTOR FILTER ADJUSTMENT  
TP7 VU METER SIGNAL (0.775 V = 0 VU)

FACTORY STANDARD SETTING

R219 auf Sockel 53.03.0228 (2x)

\* Codierung: Schaltdraht 64.01.0108 Ø 0,8 x 8 mm  
(muss 1mm vorstehen)

Schilder 1.727.462-10 / 43.01.0108  
aufgeklebt nach Fabrikationsmuster.



AUDIO ELECTRONICS BOARD 2/2 VUK 1.727.462.84

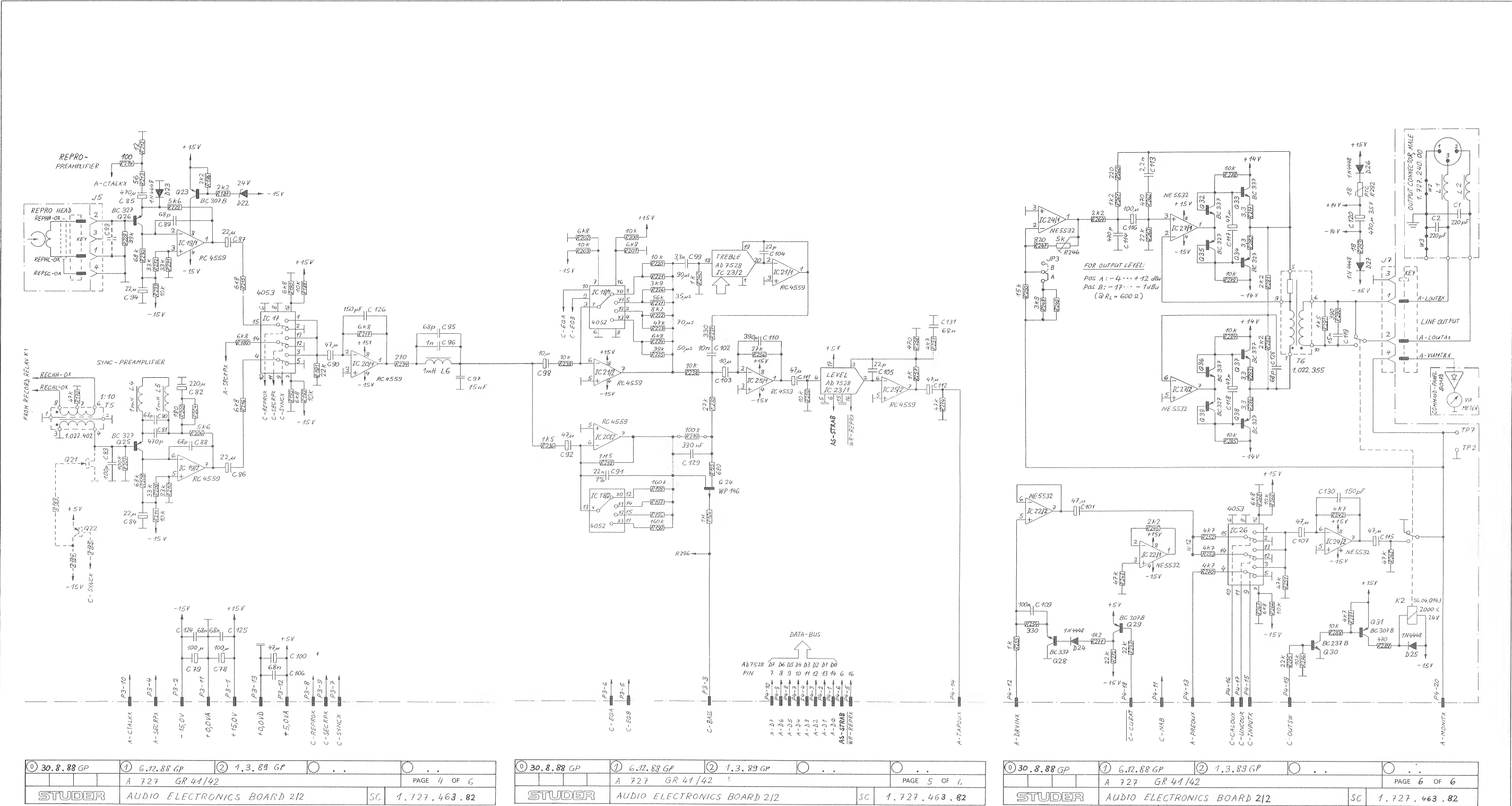
| POS.   | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. | POS.    | PART NO.   | VALUE                | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE                 | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|------------|--------|-----------------------------|--------|---------|------------|----------------------|-----------------------------|--------|---------|------------|----------|-----------------------|-----------------------------|--------|---------|------------|----------|-----------|-----------------------------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| C....6   | 59.05.1681 | 680 pF | 1X 50V PP                   |        | C...124 | 59.06.0683 | 68 nF 10X 50V PETF   |                             |        | Q....8  | 50.03.0515 | BC307B   | BC557B, BC560B        | PNP                         |        | R...101 | 57.11.3103 | 10 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C....7   | 59.05.1681 | 680 pF | 1X 50V PP                   |        | C...125 | 59.06.0683 | 68 nF 10X 50V PETF   |                             |        | Q....9  | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         |        | R...102 | 57.11.5335 | 3.3 kOhm | 5X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C....8   | 59.06.0103 | 10 nF  | 10X 50V PETF                |        | C...126 | 59.34.4151 | 150 pF 10X 50V Cer   |                             |        | Q....10 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         |        | R...103 | 57.11.3472 | 4.7 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...11   | 59.34.4151 | 150 pF | 10X 50V Cer                 |        | C...127 | 59.22.8479 | 4.7 uF -20X 35V EL   |                             |        | Q....11 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         |        | R...104 | 57.11.3102 | 1 kOhm   | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...14   | 59.22.3470 | 47 uF  | -20X 10V EL                 |        | C...128 | 59.34.4680 | 68 pF 10X 50V Cer    |                             |        | Q....12 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         |        | R...105 | 57.11.3391 | 390 Ohm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...15   | 59.22.3470 | 47 uF  | -20X 10V EL                 |        | C...129 | 59.06.5334 | 330 nF 5X 50V PETF   |                             |        | Q....13 | 50.03.0515 | BC307B   | BC557B, BC560B        | PNP                         |        | R...106 | 57.11.3104 | 100 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...16   | 59.22.2221 | 220 uF | -20X 6.3V EL                |        | C...130 | 59.34.4151 | 150 pF 10X 50V Cer   |                             |        | Q....14 | 50.03.0495 | BD135-16 |                       | NPN                         |        | R...107 | 57.11.3822 | 8.2 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...18   | 59.22.3470 | 47 uF  | -20X 10V EL                 |        | C...131 | 59.06.0683 | 68 nF 10X 50V PETF   |                             |        | Q....15 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         |        | R...108 | 57.11.3182 | 1.8 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...19   | 59.22.3470 | 47 uF  | -20X 10V EL                 |        | C...135 | 59.22.3101 | 100 uF -20X 10V EL   |                             |        | Q....16 | 50.03.0510 | BD136-16 |                       | PNP                         |        | R...109 | 57.11.3151 | 150 Ohm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...20   | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        |         |            |                      |                             |        | Q....17 | 50.03.0515 | BC307B   | BC557B, BC560B        | PNP                         |        | R...110 | 57.11.3562 | 5.6 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...21   | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        | D....3  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....18 | 50.03.0495 | BD135-16 |                       | NPN                         |        | R...111 | 57.11.3823 | 82 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...22   | 59.22.6100 | 10 uF  | -20X 35V EL                 |        | D....4  | 50.04.1102 | 6.8 V 5X, 0.4W Zener |                             |        | Q....19 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         |        | R...112 | 57.11.3132 | 1.3 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...23   | 59.06.5682 | 6.8 nF | 5X 50V PETF                 |        | D....5  | 50.04.1105 | 2.7 V 5X, 0.4W Zener |                             |        | Q....20 | 50.03.0510 | BD136-16 |                       | PNP                         |        | R...113 | 57.11.3223 | 22 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...24   | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        | D....6  | 50.04.1112 | 5.1 V 5X, 0.4W Zener |                             |        | Q....21 | 50.03.0350 | J112     |                       | FET                         | Not    | R...114 | 57.11.3474 | 470 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...25   | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        | D....7  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....22 |            |          | not used              |                             |        | R...115 | 57.11.3223 | 22 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...26   | 59.06.0105 | 1 uF   | 10X 50V PETF                |        | D....8  | 50.04.1105 | 2.7 V 5X, 0.4W Zener |                             |        | Q....23 | 50.03.0515 | BC307B   | BC557B, BC560B        | PNP                         | Not    | R...116 | 57.11.3104 | 100 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...27   | 59.06.0473 | 47 nF  | 10X 50V PETF                |        | D....9  |            | not used             |                             |        | Q....24 | 50.03.0329 | HP146    |                       | FET                         |        | R...117 | 57.11.3223 | 22 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...28   | 59.06.0473 | 47 nF  | 10X 50V PETF                |        | D...10  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....25 | 50.03.0625 | BC327    |                       | PNP                         |        | R...118 | 57.11.3223 | 22 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...29   | 59.22.3470 | 47 uF  | -20X 10V EL                 |        | D...11  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....26 | 50.03.0625 | BC327    |                       | PNP                         |        | R...119 | 57.11.3102 | 1 kOhm   | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...30   | 59.05.1332 | 3.3 nF | 1X 50V PP                   |        | D...12  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....28 | 50.03.0340 | BC337-25 |                       | NPN                         |        | R...120 | 57.11.3104 | 100 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...31   | 59.05.1332 | 3.3 nF | 1X 50V PP                   |        | D...13  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....29 | 50.03.0519 | BC307B   | BC557B, BC560B        | NPN                         |        | R...121 | 57.11.3682 | 6.8 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...32   | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        | D...14  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....30 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         |        | R...122 | 57.11.3154 | 150 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...33   | 59.05.2102 | 1 nF   | 2.5X 50V PP                 |        | D...15  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....31 | 50.03.0515 | BC307B   | BC557B, BC560B        | NPN                         |        | R...123 | 57.11.3471 | 470 Ohm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...34   | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        | D...16  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....32 | 50.03.0516 | BC337    | matched with Q33, NPN |                             |        | R...124 | 57.11.5106 | 10 MOhm  | 5X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...35   | 59.22.8479 | 4.7 uF | -20X 35V EL                 |        | D...17  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....33 | 50.03.0516 | BC337    | matched with Q32, NPN |                             |        | R...125 | 57.11.5106 | 10 MOhm  | 5X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...36   | 59.06.0473 | 47 nF  | 10X 50V PETF                |        | D...18  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....34 | 50.03.0625 | BC327    | matched with Q35, PNP |                             |        | R...126 | 57.11.3103 | 10 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...37   | 59.06.0473 | 47 nF  | 10X 50V PETF                |        | D...19  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....35 | 50.03.0625 | BC327    | matched with Q34, PNP |                             |        | R...127 | 57.11.3472 | 4.7 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...38   | 59.06.0683 | 68 nF  | 10X 50V PETF                |        | D...20  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....36 | 50.03.0516 | BC337    | matched with Q37, NPN |                             |        | R...128 | 57.11.3472 | 4.7 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...39   | 59.22.3470 | 47 uF  | -20X 10V EL                 |        | D...21  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....37 | 50.03.0516 | BC337    | matched with Q36, NPN |                             |        | R...129 | 57.11.3103 | 10 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...40   | 59.06.5474 | 470 nF | 5X 50V PETF                 |        | D...22  | 50.04.1121 | 24 V 5X, 0.4W Zener  |                             |        | Q....38 | 50.03.0625 | BC327    | matched with Q39, PNP |                             |        | R...130 | 57.11.3153 | 15 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...41   | 59.34.2220 | 22 pF  | 10X 50V Cer                 |        | D...23  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....39 | 50.03.0625 | BC327    | matched with Q38, PNP |                             |        | R...131 | 57.11.3153 | 15 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...42   | 59.06.0223 | 22 nF  | 10X 50V PETF                |        | D...24  | 50.04.0125 | IN4448 50V SI        |                             |        | Q....40 | 50.03.0350 | J112     |                       | FET                         | Not    | R...132 | 57.11.3103 | 10 kOhm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...43   | 59.34.4221 | 220 pF | 5X 50V Cer                  |        | D...25  | 50.04.0125 | IN4448 50V SI        |                             |        |         |            |          |                       |                             |        | R...133 | 57.11.3221 | 220 Ohm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...44   | 59.34.2220 | 22 pF  | 10X 50V Cer                 |        | D...26  | 50.04.0125 | IN4448 50V SI        |                             |        | R...111 | 57.11.3152 | 1.5 kOhm | 2X, 0.25W             | MF                          |        | R...134 | 57.11.3221 | 220 Ohm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...45   | 59.34.2220 | 22 pF  | 10X 50V Cer                 |        | D...27  | 50.04.0125 | IN4448 50V SI        |                             |        | R...112 | 57.11.3152 | 1.5 kOhm | 2X, 0.25W             | MF                          |        | R...135 | 57.11.3221 | 220 Ohm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...46   | 59.06.0473 | 47 nF  | 10X 50V PETF                |        | D...28  | 50.04.1114 | 10 V 5X, 0.4W Zener  |                             |        | R...113 | 57.11.3392 | 3.9 kOhm | 2X, 0.25W             | MF                          |        | R...136 | 57.11.3221 | 220 Ohm  | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C...47   | 59.06.0104 | 100 nF | 10X 50V PETF                |        |         |            |                      |                             |        | R...114 | 57.11.3392 | 3.9 kOhm | 2X, 0.25W             | MF                          |        | R...137 | 57.11.3682 | 6.8 kOhm | 2X, 0.25W | MF                          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| S T U D E R (01) 90/09/25 GP AUDIO ELECTRONICS BOARD 2/2VUK PL 1.727.462.84 PAGE 1 |            |        |                             |        |         |            |                      |                             |        |         |            |          |                       |                             |        |         |            |          |           |                             |        | S T U D E R (01) 90/09/25 GP AUDIO ELECTRONICS BOARD 2/2VUK PL 1.727.462.84 PAGE 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



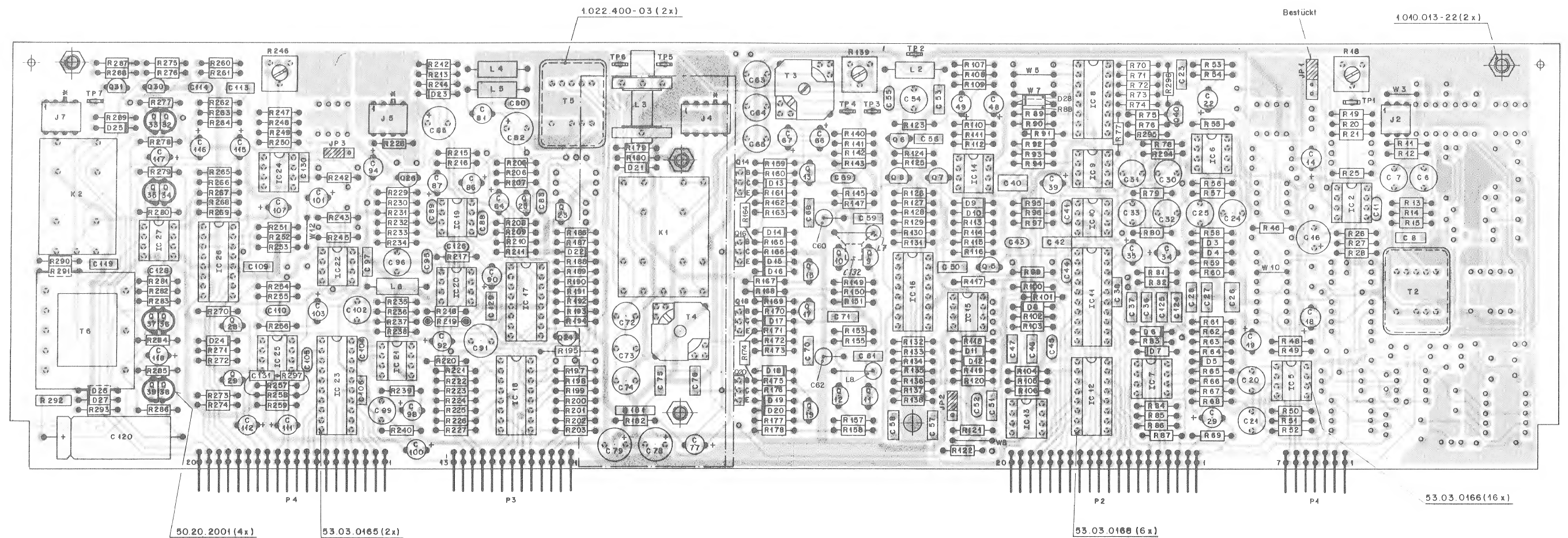




AUDIO ELECTRONICS BOARD 2/2 1.727.463.82




## AUDIO ELECTRONICS BOARD 2/2 1.727.463.82



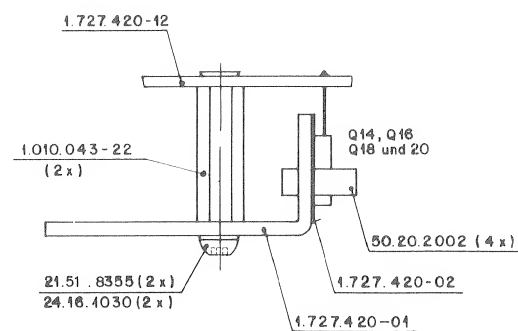
R18 = INPUT LEVEL ADJUSTMENT  
 R139 = ERASE VOLTAGE ADJUSTMENT  
 R246 = OUTPUT LEVEL ADJUSTMENT  
 L3 = BIAS TRAP  
 T3 = ERASE HEAD CIRCUIT

JP1 INPUT LEVEL SENSITIVITY  
 JP2 HX PRO: A = ON, B = OFF  
 JP3 OUTPUT LEVEL SENSITIVITY

TP1 RECORD AMPLIFIER SIGNAL (0.775 V = 0 VU)  
 TP2 0.0 V  
 TP3 VOLTAGE ON ERASE HEAD  
 TP4 PRIMARY CURRENT ON ERASE TRANSFORMER  
 TP5 BIAS CURRENT ON 10 Ω  
 TP6 REJECTOR FILTER ADJUSTMENT  
 TP7 VU METER SIGNAL (0.775 V = 0 VU)

 FACTORY STANDARD SETTING

R219 auf Sockel 53.03.0228 (2x)



AUDIO ELECTRONICS BOARD 2/2 1.727.463.82

| POS.NO.   | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF.   | IND. | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF.     | IND.    | POS.NO.    | PART NO.   | VALUE                 | SPECIFICATIONS / EQUIVALENT | MANUF.    | IND.    | POS.NO.    | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF.    |  |
|---|------------|--------|-----------------------------|----------|------|---------|------------|---------|-----------------------------|------------|---------|------------|------------|-----------------------|-----------------------------|-----------|---------|------------|------------|----------|-----------------------------|-----------|--|
| C....6  | 59.05.1681 | 680 pF | 1X                          | 50V PP   |      | C...128 | 59.34.4680 | 68 pF   | 10X                         | 50V Cer    |         | Q....16    | 50.03.0510 | BD136-16              |                             |           | PNP     | R...120    | 57.11.3104 | 100 kOhm | 2X                          | 0.25W, MF |  |
| C....7  | 59.05.1681 | 680 pF | 1X                          | 50V PP   |      | C...129 | 59.06.5334 | 330 nF  | 5X                          | 50V PETP   |         | Q....17    | 50.03.0515 | BC307B                | BC557B, BC560B              |           | PNP     | R...121    | 57.11.3682 | 6.8 kOhm | 2X                          | 0.25W, MF |  |
| C....8  | 59.06.0103 | 10 nF  | 10X                         | 50V PETP |      | C...130 | 59.34.4151 | 150 pF  | 10X                         | 50V Cer    |         | Q....18    | 50.03.0495 | BD135-16              |                             |           | PNP     | R...122    | 57.11.3154 | 150 kOhm | 2X                          | 0.25W, MF |  |
| C....11   | 59.34.4151 | 150 pF | 10X                         | 50V Cer  |      | C...131 | 59.06.0683 | 68 nF   | 10X                         | 50V PETP   |         | Q....19    | 50.03.0436 | BC237B                | BC547B, BC550B              |           | NPN     | R...123    | 57.11.3471 | 470 Ohm  | 2X                          | 0.25W, MF |  |
| C....14   | 59.22.3470 | 47 uF  | -20X                        | 10V EL   |      | C...132 | 59.34.4101 | 100 pF  | 5X                          | 50V Cer    |         | Q....20    | 50.03.0510 | BD136-16              |                             |           | PNP     | R...124    | 57.11.5106 | 10 kOhm  | 5X                          | 0.25W, MF |  |
| C....16   | 59.22.2221 | 220 uF | -20X                        | 6.3V EL  |      |         |            |         |                             |            | Q....21 |            |            | not used              |                             |           |         | R...125    | 57.11.5106 | 10 kOhm  | 5X                          | 0.25W, MF |  |
| C....18   | 59.22.3470 | 47 uF  | -20X                        | 10V EL   |      | D....3  | 50.04.0125 | 1N4448  |                             |            | Q....22 |            |            | not used              |                             |           |         | R...126    | 57.11.3103 | 10 kOhm  | 2X                          | 0.25W, MF |  |
| C....19   | 59.22.3470 | 47 uF  | -20X                        | 10V EL   |      | D....4  | 50.04.1102 | 6.8 V   | 5X                          | 0.4W Zener |         | Q....23    | 50.03.0515 | BC307B                | BC557B, BC560B              |           | PNP     | R...127    | 57.11.3472 | 4.7 kOhm | 2X                          | 0.25W, MF |  |
| C....20   | 59.05.2102 | 1 nF   | 2.5X                        | 50V PP   |      | D....5  | 50.04.1106 | 2.7 V   | 5X                          | 0.4W Zener |         | Q....24    | 50.03.0329 | WPI46                 |                             |           | FET     | R...128    | 57.11.3472 | 4.7 kOhm | 2X                          | 0.25W, MF |  |
| C....21   | 59.05.2102 | 1 nF   | 2.5X                        | 50V PP   |      | D....6  | 50.04.1112 | 5.1 V   | 5X                          | 0.4W Zener |         | Q....25    | 50.03.0625 | BC327                 |                             |           | PET     | R...129    | 57.11.3103 | 10 kOhm  | 2X                          | 0.25W, MF |  |
| C....22   | 59.22.6100 | 10 uF  | -20X                        | 35V EL   |      | D....7  | 50.04.0125 | 1N4448  |                             |            | Q....26 | 50.03.0625 | BC327      |                       |                             | PNP       | R...130 | 57.11.3153 | 15 kOhm    | 2X       | 0.25W, MF                   |           |  |
| C....23   | 59.06.5682 | 6.8 nF | 5X                          | 50V PETP |      | D....8  | 50.04.1106 | 2.7 V   | 5X                          | 0.4W Zener |         | Q....28    | 50.03.0340 | BC337-25              |                             |           | NPN     | R...131    | 57.11.3153 | 15 kOhm  | 2X                          | 0.25W, MF |  |
| C....24   | 59.05.2102 | 1 nF   | 2.5X                        | 50V PP   |      | D....9  |            |         | not used                    |            | Q....29 | 50.03.0515 | BC307B     | BC557B, BC560B        |                             | NPN       | R...132 | 57.11.3103 | 10 kOhm    | 2X       | 0.25W, MF                   |           |  |
| C....25   | 59.05.2102 | 1 nF   | 2.5X                        | 50V PP   |      | D....10 | 50.04.0125 | 1N4448  |                             |            | Q....30 | 50.03.0436 | BC237B     | BC547B, BC550B        |                             | NPN       | R...133 | 57.11.3221 | 220 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....26   | 59.06.0105 | 1 uF   | 10X                         | 50V PETP |      | D....11 | 50.04.0125 | 1N4448  |                             |            | Q....31 | 50.03.0515 | BC307B     | BC557B, BC560B        |                             | NPN       | R...134 | 57.11.3221 | 220 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....27   | 59.06.0473 | 47 nF  | 10X                         | 50V PETP |      | D....12 | 50.04.0125 | 1N4448  |                             |            | Q....32 | 50.03.0516 | BC337      | matched with Q33, NPN |                             |           | R...135 | 57.11.3221 | 220 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....28   | 59.06.0473 | 47 nF  | 10X                         | 50V PETP |      | D....13 | 50.04.0125 | 1N4448  |                             |            | Q....33 | 50.03.0516 | BC337      | matched with Q32, NPN |                             |           | R...136 | 57.11.3221 | 220 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....29   | 59.22.3470 | 47 uF  | -20X                        | 10V EL   |      | D....14 | 50.04.0125 | 1N4448  |                             |            | Q....34 | 50.03.0625 | BC327      | matched with Q35, PNP |                             |           | R...137 | 57.11.3682 | 6.8 kOhm   | 2X       | 0.25W, MF                   |           |  |
| C....30   | 59.05.1332 | 3.3 nF | 1X                          | 50V PP   |      | D....15 | 50.04.0125 | 1N4448  |                             |            | Q....35 | 50.03.0625 | BC327      | matched with Q34, PNP |                             |           | R...138 | 57.11.3822 | 8.2 kOhm   | 2X       | 0.25W, MF                   |           |  |
| C....31   | 59.05.1332 | 3.3 nF | 1X                          | 50V PP   |      | D....16 | 50.04.0125 | 1N4448  |                             |            | Q....36 | 50.03.0516 | BC337      | matched with Q37, NPN |                             |           | R...139 | 58.01.8103 | 10 kOhm    | 10X      | 0.5 W, PMG                  |           |  |
| C....32   | 59.05.2102 | 1 nF   | 2.5X                        | 50V PP   |      | D....17 | 50.04.0125 | 1N4448  |                             |            | Q....37 | 50.03.0516 | BC337      | matched with Q36, NPN |                             |           | R...140 | 57.11.3229 | 2.2 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....33   | 59.05.2102 | 1 nF   | 2.5X                        | 50V PP   |      | D....18 | 50.04.0125 | 1N4448  |                             |            | Q....38 | 50.03.0625 | BC327      | matched with Q39, PNP |                             |           | R...141 | 57.11.3301 | 300 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....34   | 59.22.8479 | 4.7 uF | -20X                        | 35V EL   |      | D....19 | 50.04.0125 | 1N4448  |                             |            | Q....39 | 50.03.0625 | BC327      | matched with Q38, PNP |                             |           | R...142 | 57.11.3332 | 3.3 kOhm   | 2X       | 0.25W, MF                   |           |  |
| C....35   | 59.22.8479 | 4.7 uF | -20X                        | 35V EL   |      | D....20 | 50.04.0125 | 1N4448  |                             |            | Q....40 | 50.03.0350 | J112       |                       |                             | PET       | R...143 | 57.11.3332 | 3.3 kOhm   | 2X       | 0.25W, MF                   |           |  |
| C....36   | 59.06.0473 | 47 nF  | 10X                         | 50V PETP |      | D....21 | 50.04.0125 | 1N4448  |                             |            |         |            |            |                       |                             |           |         | R...145    | 57.11.3332 | 3.3 kOhm | 2X                          | 0.25W, MF |  |
| C....37   | 59.06.0473 | 47 nF  | 10X                         | 50V PETP |      | D....22 | 50.04.1121 | 24 V    | 5X                          | 0.4W Zener |         | R....11    | 57.11.3152 | 1.5 kOhm              | 2X                          | 0.25W, MF |         | R...147    | 57.11.3471 | 470 Ohm  | 2X                          | 0.25W, MF |  |
| C....38   | 59.06.0683 | 68 nF  | 10X                         | 50V PETP |      | D....23 | 50.04.0125 | 1N4448  |                             |            | R....12 | 57.11.3152 | 1.5 kOhm   | 2X                    | 0.25W, MF                   |           | R...149 | 57.11.3220 | 22 Ohm     | 2X       | 0.25W, MF                   |           |  |
| C....39   | 59.22.3470 | 47 uF  | -20X                        | 10V EL   |      | D....24 | 50.04.0125 | 1N4448  |                             |            | R....13 | 57.11.3392 | 3.9 kOhm   | 2X                    | 0.25W, MF                   |           | R...150 | 57.11.3220 | 22 Ohm     | 2X       | 0.25W, MF                   |           |  |
| C....40   | 59.06.5474 | 470 nF | 5X                          | 50V PETP |      | D....25 | 50.04.0125 | 1N4448  |                             |            | R....14 | 57.11.3392 | 3.9 kOhm   | 2X                    | 0.25W, MF                   |           | R...151 | 57.11.3322 | 3.3 kOhm   | 2X       | 0.25W, MF                   |           |  |
| C....41   | 59.34.2220 | 22 pF  | 10X                         | 50V Cer  |      | D....26 | 50.04.0125 | 1N4448  |                             |            | R....15 | 57.11.3182 | 1.8 kOhm   | 2X                    | 0.25W, MF                   |           | R...153 | 57.11.3332 | 3.3 kOhm   | 2X       | 0.25W, MF                   |           |  |
| C....42   | 59.06.0223 | 22 nF  | 10X                         | 50V PETP |      | D....27 | 50.04.0125 | 1N4448  |                             |            | R....18 | 58.01.8502 | 5 kOhm     | 10X                   | 0.5 W, PMG                  |           | R...155 | 57.11.3471 | 470 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....43   | 59.34.4221 | 220 pF | 5X                          | 50V Cer  |      | D....28 | 50.04.1114 | 10 V    | 5X                          | 0.4W Zener |         | R....19    | 57.11.3821 | 820 Ohm               | 2X                          | 0.25W, MF |         | R...157    | 57.11.3220 | 22 Ohm   | 2X                          | 0.25W, MF |  |
| C....44   | 59.34.2220 | 22 pF  | 10X                         | 50V Cer  |      |         |            |         |                             |            | R....20 | 57.11.3123 | 12 kOhm    | 2X                    | 0.25W, MF                   |           | R...158 | 57.11.3220 | 22 Ohm     | 2X       | 0.25W, MF                   |           |  |
| C....45   | 59.34.2220 | 22 pF  | 10X                         | 50V Cer  |      | IC....2 | 50.09.0105 | NE 5532 | Dual Op. Amp.               | Sig        | R....21 | 57.11.3222 | 2.2 kOhm   | 2X                    | 0.25W, MF                   |           | R...159 | 57.11.3470 | 47 Ohm     | 2X       | 0.25W, MF                   |           |  |
| C....46   | 59.06.0333 | 33 nF  | 10X                         | 50V PETP |      | IC....5 | 50.09.0105 | NE 5532 | Dual Op. Amp.               | Sig        | R....25 | 57.11.3433 | 43 kOhm    | 2X                    | 0.25W, MF                   |           | R...160 | 57.11.3229 | 2.2 Ohm    | 2X       | 0.25W, MF                   |           |  |
| C....47   | 59.06.0104 | 100 nF | 10X                         | 50V PETP |      | IC....6 | 50.09.0107 | RC 4559 | Dual Op. Amp.               | Ra         | R....26 | 57.11.3392 | 3.9 kOhm   | 2X                    | 0.25W, MF                   |           | R...161 | 57.11.3470 | 47 Ohm     | 2X       | 0.25W, MF                   |           |  |
| C....48   | 59.22.3470 | 47 uF  | -20X                        | 10V EL   |      | IC....7 | 50.09.0107 | RC 4559 | Dual Op. Amp.               | Ra         | R....27 | 57.11.3432 | 4.3 kOhm   | 2X                    | 0.25W, MF                   |           | R...162 | 57.11.3472 | 4.7 kOhm   | 2X       | 0.25W, MF                   |           |  |
| S T U D E R (02) 89/03/01 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.82 PAGE 1 |            |        |                             |          |      |         |            |         |                             |            |         |            |            |                       |                             |           |         |            |            |          |                             |           |  |
| S T U D E R (02) 89/03/   |            |        |                             |          |      |         |            |         |                             |            |         |            |            |                       |                             |           |         |            |            |          |                             |           |  |



## AUDIO ELECTRONICS BOARD 2/2 1.727.463.82

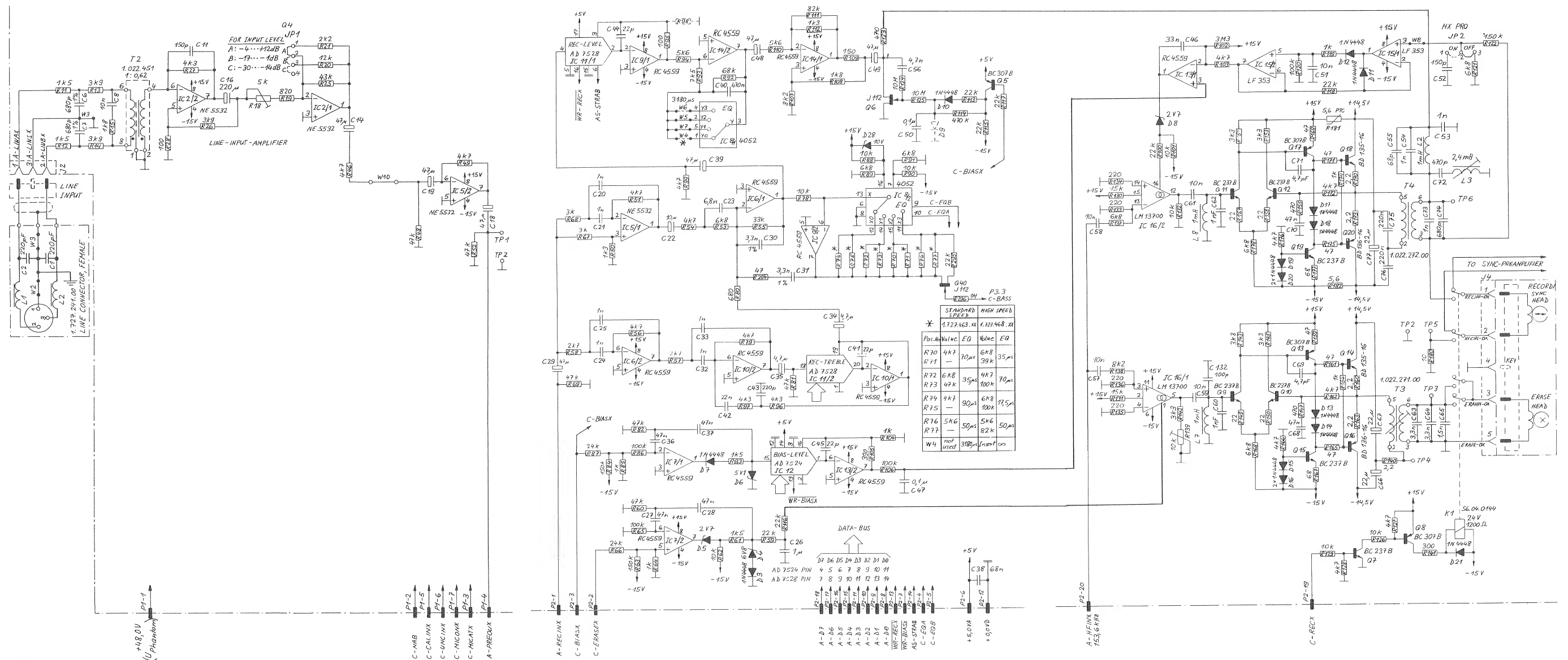
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|--|---------|------------|----------|-----------------------------|--------|--|---------|----------|-------|-----------------------------|--------|
| R...236  |         | 57.11.3152 | 1.5 kOhm | 2%, 0.25W, MF               |        | (01) Reduction of trebles for new reproduce head.                                |         |          |       |                             |        |
| R...237  |         | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF               |        | (02) Resonance fine adjust.  |         |          |       |                             |        |
| R...238  |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        | Cer = Ceramic EL = Electrolytic PETP = Polyester                                 |         |          |       |                             |        |
| R...239  |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        | PP = Polypropylen MF = Metal Film SI = Silicon                                   |         |          |       |                             |        |
| R...240  |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        | MANUFACTURER: ADI = Analog Devices Inc. Mot = Motorola                           |         |          |       |                             |        |
| R...242  |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        | NS = National Semiconductors Ra = Raytheon                                       |         |          |       |                             |        |
| R...243  |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        | Sig = Signetics St = Studer  |         |          |       |                             |        |
| R...245  |         | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...246  |         | 58.01.8502 | 5 kOhm   | 10%, 0.5 W, PMG             |        |  |         |          |       |                             |        |
| R...247  |         | 57.11.3821 | 820 Ohm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...248  |         | 57.11.3392 | 3.9 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...249  |         |            |          | not used                    |        |  |         |          |       |                             |        |
| R...250  |         | 57.11.3153 | 15 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...251  |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...252  |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...253  |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...254  |         | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...255  |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...256  |         | 57.11.3273 | 27 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...257  |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...258  |         | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...259  |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...260  |         | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...261  |         | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...262  |         | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...263  |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...264  |         | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...265  |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...266  |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...267  |         | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...268  |         | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...269  |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...270  |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...271  |         | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...272  |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...273  |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| R...274  |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |  |         |          |       |                             |        |
| S T U D E R (02) 89/03/01 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.82 PAGE 13 |         |            |          |                             |        | S T U D E R (02) 89/03/01 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.82 PAGE 16 |         |          |       |                             |        |

| IND.   | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|---------|--------------|----------|-----------------------------|--------|
| R...275  |         | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...276  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...277  |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...278  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...279  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...280  |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...281  |         | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...282  |         | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...283  |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...284  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...285  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...286  |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...287  |         | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...288  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...289  |         | 57.11.3471   | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...290  |         | 57.11.3391   | 390 Ohm  | 2%, 0.25W, MF               |        |
| R...291  |         | 57.11.3152   | 1.5 kOhm | 2%, 0.25W, MF               |        |
| R...292  |         | 57.92.1151   | 18 Ohm   | 150mA, PTC                  |        |
| R...293  |         | 57.11.3180   | 18 Ohm   | 2%, 0.25W, MF               |        |
| R...294  |         | 57.11.3470   | 47 Ohm   | 2%, 0.25W, MF               |        |
| R...295  |         | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...296  |         | 57.11.3105   | 1 MOhm   | 2%, 0.25W, MF               |        |
| R...297  |         | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| T....2   |         | 1.022.451.00 | 1:0.62   | Line Input Trafo            | St     |
| T....3   |         | 1.022.271.00 |          | Erase Trafo                 | St     |
| T....4   |         | 1.022.272.00 |          | Bias Trafo                  | St     |
| T....5   |         | 1.022.402.00 | 1:10     | Sync Trafo                  | St     |
| T....6   |         | 1.022.355.00 |          | Line Output Trafo           | St     |
| TP....1  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....2  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....3  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....4  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....5  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....6  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....7  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| S T U D E R (02) 89/03/01 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.82 PAGE 14 |         |              |          |                             |        |

| IND.     | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|------------|---------|-----------------------------|--------|
| W....3   |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....4   |         |            |         | not used                    |        |
| W....5   |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....6   |         |            |         | not used                    |        |
| W....7   |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....8   |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....10  |         | 64.01.0106 |         | Wire Bridge                 |        |
| W....12  |         | 64.01.0106 |         | Wire Bridge                 |        |
| XIC...2  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...5  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...6  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...7  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...8  |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...9  |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...10 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...11 |         | 53.03.0165 | 20-Pole | IC Socket                   |        |
| XIC...12 |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...13 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...14 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...15 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...16 |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...17 |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...18 |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...19 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...20 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...21 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...22 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...23 |         | 53.03.0165 | 20-Pole | IC Socket                   |        |
| XIC...24 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...25 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC...26 |         | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC...27 |         | 53.03.0166 | 8-Pole  | IC Socket                   |        |

S T U D E R (02) 89/03/01 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.82 PAGE 15

**AUDIO ELECTRONICS BOARD 2/2 1.727.463.83**  
**-AUDIO ELECTRONICS BOARD 2/2 HS 1.727.468.00**

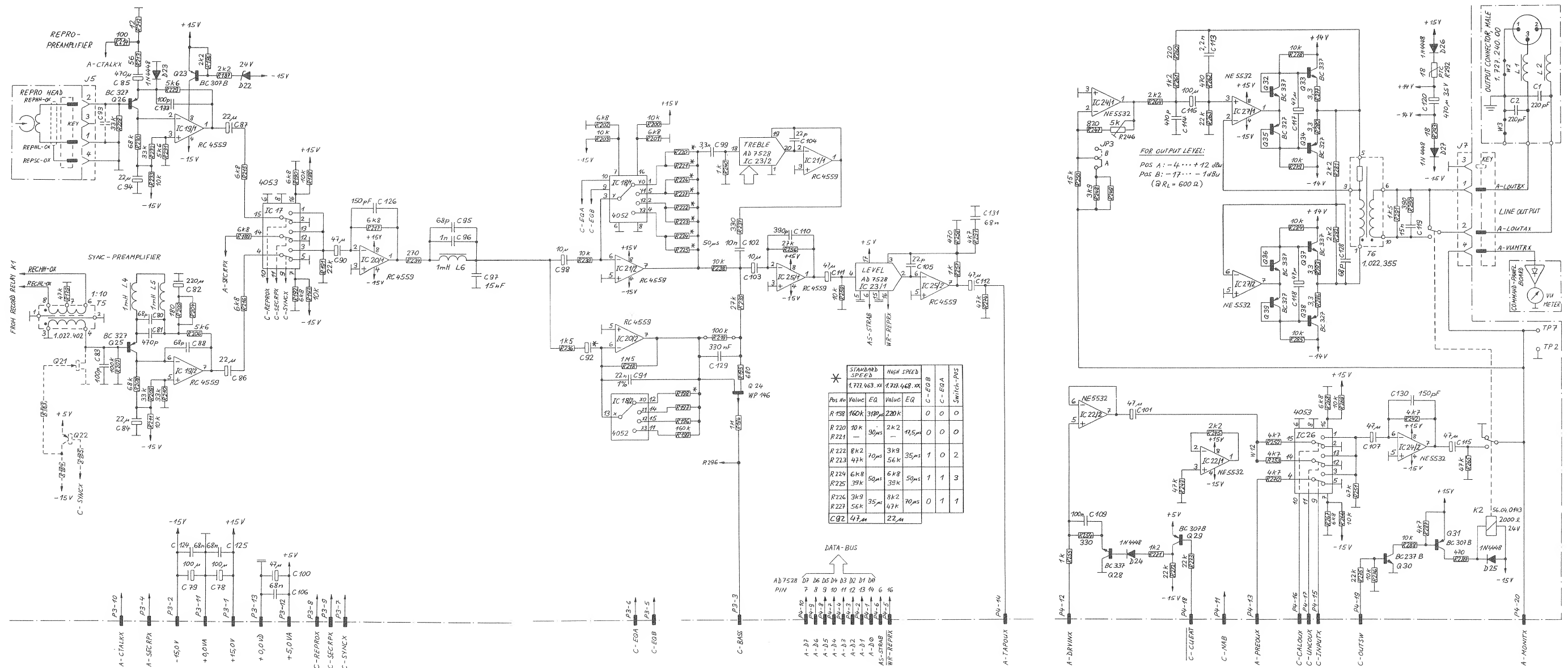


|                   |                                |     |              |     |     |
|-------------------|--------------------------------|-----|--------------|-----|-----|
| 0                 | 3.7.89 GP                      | ... | ...          | ... | ... |
| A 807 GR 41/GR 42 |                                |     |              |     |     |
| PAGE 1 OF 6       |                                |     |              |     |     |
| STUDER            | AUDIO ELECTRONICS BOARD 2/2    | SC  | 1.727.463.83 |     |     |
|                   | AUDIO ELECTRONICS BOARD 2/2 HS |     | 1.727.468.00 |     |     |

|                |                                |     |              |     |     |
|----------------|--------------------------------|-----|--------------|-----|-----|
| 0              | 3.7.89 GP                      | ... | ...          | ... | ... |
| A 807 GR 41/42 |                                |     |              |     |     |
| PAGE 2 OF 6    |                                |     |              |     |     |
| STUDER         | AUDIO ELECTRONICS BOARD 2/2    | SC  | 1.727.463.83 |     |     |
|                | AUDIO ELECTRONICS BOARD 2/2 HS |     | 1.727.468.00 |     |     |

|                |                                |     |              |     |     |
|----------------|--------------------------------|-----|--------------|-----|-----|
| 0              | 3.7.89 GP                      | ... | ...          | ... | ... |
| A 807 GR 41/42 |                                |     |              |     |     |
| PAGE 3 OF 6    |                                |     |              |     |     |
| STUDER         | AUDIO ELECTRONICS BOARD 2/2    | SC  | 1.727.463.83 |     |     |
|                | AUDIO ELECTRONICS BOARD 2/2 HS |     | 1.727.468.00 |     |     |

**AUDIO ELECTRONICS BOARD 2/2 1.727.463.83**  
**-AUDIO ELECTRONICS BOARD 2/2 HS 1.727.468.00**

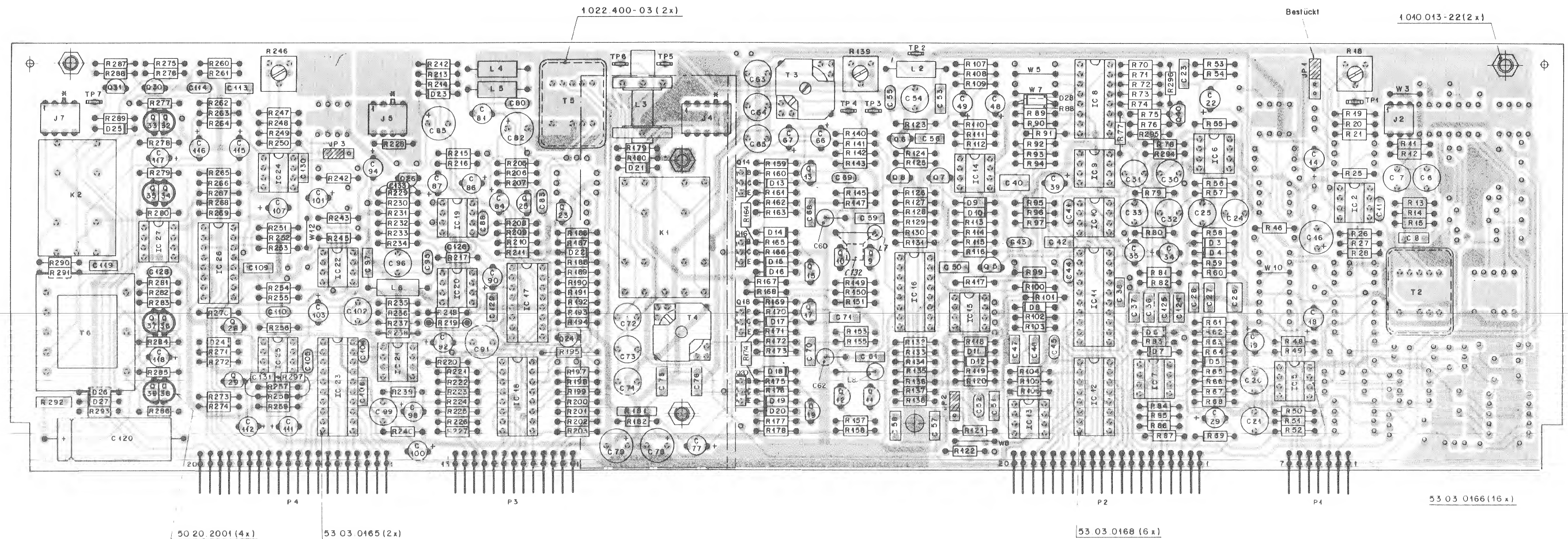


|               |                                |       |              |             |
|---------------|--------------------------------|-------|--------------|-------------|
| ① 3.7. 89 GP  | ○ . .                          | ○ . . | ○ . .        | ○ . .       |
|               | A 807 GR 41/42                 |       |              | PAGE 4 OF 6 |
| <b>STUDER</b> | AUDIO ELECTRONICS BOARD 2/2    | SC    | 1.727.463.83 |             |
|               | AUDIO ELECTRONICS BOARD 2/2 HS |       | 1.727.468.00 |             |

|              |                                |       |       |                 |
|--------------|--------------------------------|-------|-------|-----------------|
| ① 3.7, 89 GP | ② . .                          | ③ . . | ④ . . | PAGE 5 OF 6     |
| STUDER       | AUDIO ELECTRONICS BOARD 2/2    |       |       | SC 1.727.463.83 |
|              | AUDIO ELECTRONICS BOARD 2/2 HS |       |       | 1.727.468.00    |

|             |                                |       |       |                 |
|-------------|--------------------------------|-------|-------|-----------------|
| ① 3.7.89 GP | ○ . .                          | ○ . . | ○ . . | ○ . .           |
|             | A 807 GR 41/42                 |       |       | PAGE 6 OF 6     |
| STUDER      | AUDIO ELECTRONICS BOARD 2/2    |       |       | SC 1.727.463.83 |
|             | AUDIO ELECTRONICS BOARD 2/2 HS |       |       | 1.727.468.00    |

**AUDIO ELECTRONICS BOARD 2/2 1.727.463.83**  
**-AUDIO ELECTRONICS BOARD 2/2 HS 1.727.468.00**



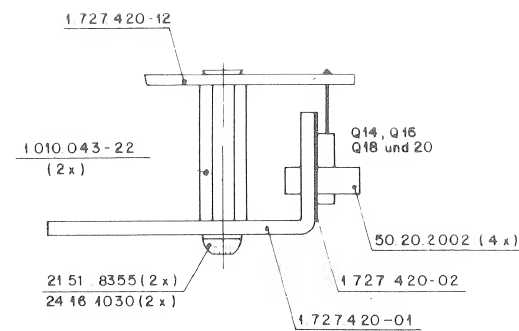
```

R18  = INPUT LEVEL ADJUSTMENT
R139 = ERASE VOLTAGE ADJUSTMENT
R246 = OUTPUT LEVEL ADJUSTMENT
L3   = BIAS TRAP
T3   = ERASE HEAD CIRCUIT

```

JF1 INPUT LEVEL SENSITIVITY  
JF2 HX PRO: A = ON, B = OFF  
JF3 OUTPUT LEVEL SENSITIVITY

TP1 RECORD AMPLIFIER SIGNAL (0.775 V = 0 VU)  
TP2 0.0 V  
TP3 VOLTAGE ON ERASE HEAD  
TP4 PRIMARY CURRENT ON ERASE TRANSFORMER  
TP5 BIAS CURRENT ON 10  $\Omega$   
TP6 REJECTOR FILTER ADJUSTMENT  
TP7 VU METER SIGNAL (0.775 V = 0 VU)

 FACTORY STANDARD SETTING

## AUDIO ELECTRONICS BOARD 2/2 1.727.463.83

| IND.    | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE                 | SPECIFICATIONS / EQUIVALENT | MANUF.  | IND.       | POS.NO.   | PART NO.   | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|-------|-----------------------------|--------|---------|------------|----------|-------|-----------------------------|--------|---------|------------|----------|-----------------------|-----------------------------|---------|------------|-----------|------------|-------|-----------------------------|--------|
| C....6  | 59.05.1681 | 680 pF   | 1X    | 50V PP                      |        | C...12B | 59.34.4680 | 68 pF    | 10X   | 50V Cer                     |        | Q....15 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         | R...119 | 57.11.3102 | 1 kOhm    | 2X, 0.25W  | MF    |                             |        |
| C....7  | 59.05.1681 | 680 pF   | 1X    | 50V PP                      |        | C...129 | 59.06.5334 | 330 nF   | 5X    | 50V PETF                    |        | Q....16 | 50.03.0510 | BD136-16 |                       | PNP                         | R...120 | 57.11.3104 | 100 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C....8  | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | C...130 | 59.34.4151 | 150 pF   | 10X   | 50V Cer                     |        | Q....17 | 50.03.0515 | BC307B   | BC557B, BC560B        | NPN                         | R...121 | 57.11.3682 | 6.8 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C....11 | 59.34.4151 | 150 pF   | 10X   | 50V Cer                     |        | C...131 | 59.06.0683 | 68 nF    | 10X   | 50V PETF                    |        | Q....18 | 50.03.0495 | BD135-16 |                       | NPN                         | R...122 | 57.11.3221 | 220 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C....14 | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | C...132 | 59.34.4101 | 100 pF   | 5X    | 50V Cer                     |        | Q....19 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         | R...123 | 57.11.3471 | 470 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C....16 | 59.22.2221 | 220 uF   | -20X  | 6.3V EL                     |        | C...133 | 59.34.4101 | 100 pF   | 5X    | 50V Cer                     |        | Q....20 | 50.03.0510 | BD136-16 |                       | PNP                         | R...124 | 57.11.5106 | 10 MOhm   | 5X, 0.25W  | MF    |                             |        |
| C...18  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        |         |            |          |       |                             |        | Q....21 |            |          | not used              |                             | R...125 | 57.11.5106 | 10 MOhm   | 5X, 0.25W  | MF    |                             |        |
| C...19  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....3  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....22 |            |          | not used              |                             | R...126 | 57.11.3103 | 10 kOhm   | 2X, 0.25W  | MF    |                             |        |
| C...20  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....4  | 50.04.1102 | 6.8 V    | 5X    | 0.4W Zener                  |        | Q....23 | 50.03.0515 | BC307B   | BC557B, BC560B        | PNP                         | R...127 | 57.11.3472 | 4.7 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...21  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....5  | 50.04.1106 | 2.7 V    | 5X,   | 0.4W Zener                  |        | Q....24 | 50.03.0329 | WP146    |                       | FET                         | R...128 | 57.11.3472 | 4.7 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...22  | 59.22.6100 | 10 uF    | -20X  | 35V EL                      |        | D....6  | 50.04.1112 | 5.1 V    | 5X,   | 0.4W Zener                  |        | Q....25 | 50.03.0625 | BC327    |                       | PNP                         | R...129 | 57.11.3103 | 10 kOhm   | 2X, 0.25W  | MF    |                             |        |
| C...23  | 59.06.5682 | 6.8 nF   | 5X    | 50V PETF                    |        | D....7  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....26 | 50.03.0625 | BC327    |                       | PNP                         | R...130 | 57.11.3153 | 15 kOhm   | 2X, 0.25W  | MF    |                             |        |
| C...24  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....8  | 50.04.1106 | 2.7 V    | 5X,   | 0.4W Zener                  |        | Q....28 | 50.03.0340 | BC337-25 |                       | NPN                         | R...131 | 57.11.3153 | 15 kOhm   | 2X, 0.25W  | MF    |                             |        |
| C...25  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....9  |            |          |       | not used                    |        | Q....29 | 50.03.0515 | BC307B   | BC557B, BC560B        | NPN                         | R...132 | 57.11.3103 | 10 kOhm   | 2X, 0.25W  | MF    |                             |        |
| C...26  | 59.06.0105 | 1 uF     | 10X   | 50V PETF                    |        | D...10  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....30 | 50.03.0436 | BC237B   | BC547B, BC550B        | NPN                         | R...133 | 57.11.3221 | 220 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C...27  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D...11  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....31 | 50.03.0515 | BC307B   | BC557B, BC560B        | NPN                         | R...134 | 57.11.3221 | 220 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C...28  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D...12  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....32 | 50.03.0516 | BC337    | matched with Q33, NPN |                             | R...135 | 57.11.3221 | 220 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C...29  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D...13  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....33 | 50.03.0516 | BC337    | matched with Q32, NPN |                             | R...136 | 57.11.3221 | 220 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C...30  | 59.05.1332 | 3.3 nF   | 1X    | 50V PP                      |        | D...14  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....34 | 50.03.0625 | BC327    | matched with Q35, PNP |                             | R...137 | 57.11.3682 | 6.8 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...31  | 59.05.1332 | 3.3 nF   | 1X    | 50V PP                      |        | D...15  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....35 | 50.03.0625 | BC327    | matched with Q34, PNP |                             | R...138 | 57.11.3822 | 8.2 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...32  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D...16  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....36 | 50.03.0516 | BC337    | matched with Q37, NPN |                             | R...139 | 58.01.8103 | 10 kOhm   | 10X, 0.5 W | PMG   |                             |        |
| C...33  | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D...17  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....37 | 50.03.0516 | BC337    | matched with Q36, NPN |                             | R...140 | 57.11.3229 | 2.2 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C...34  | 59.22.8479 | 4.7 uF   | -20X  | 35V EL                      |        | D...18  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....38 | 50.03.0625 | BC327    | matched with Q39, PNP |                             | R...141 | 57.11.3301 | 300 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C...35  | 59.22.8479 | 4.7 uF   | -20X  | 35V EL                      |        | D...19  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....39 | 50.03.0625 | BC327    | matched with Q38, PNP |                             | R...142 | 57.11.3332 | 3.3 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...36  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D...20  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | Q....40 | 50.03.0350 | 1112     |                       | FET                         | R...143 | 57.11.3225 | 2X, 0.25W | MF         |       |                             |        |
| C...37  | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D...21  | 50.04.0125 | 1N4448   |       | 50V SI                      |        |         |            |          |                       |                             | R...145 | 57.11.3332 | 3.3 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...38  | 59.06.0683 | 68 nF    | 10X   | 50V PETF                    |        | D...22  | 50.04.1121 | 24 V     | 5X    | 0.4W Zener                  |        | R...11  | 57.11.3152 | 1.5 kOhm | 2X, 0.25W             | MF                          | R...147 | 57.11.3471 | 470 Ohm   | 2X, 0.25W  | MF    |                             |        |
| C...39  | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D...23  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | R...12  | 57.11.3152 | 1.5 kOhm | 2X, 0.25W             | MF                          | R...149 | 57.11.3220 | 22 Ohm    | 2X, 0.25W  | MF    |                             |        |
| C...40  | 59.06.5474 | 470 nF   | 5X    | 50V PETF                    |        | D...24  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | R...13  | 57.11.3392 | 3.9 kOhm | 2X, 0.25W             | MF                          | R...150 | 57.11.3220 | 22 Ohm    | 2X, 0.25W  | MF    |                             |        |
| C...41  | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | D...25  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | R...14  | 57.11.3392 | 3.9 kOhm | 2X, 0.25W             | MF                          | R...151 | 57.11.3332 | 3.3 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...42  | 59.06.0223 | 22 pF    | 10X   | 50V PETF                    |        | D...26  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | R...15  | 57.11.3182 | 1.8 kOhm | 2X, 0.25W             | MF                          | R...153 | 57.11.3332 | 3.3 kOhm  | 2X, 0.25W  | MF    |                             |        |
| C...43  | 59.34.4221 | 220 pF   | 5X    | 50V Cer                     |        | D...27  | 50.04.0125 | 1N4448   |       | 50V SI                      |        | R...16  | 57.11.6502 | 58 Ohm   | 2X, 0.5 W             | PMG                         | R...154 | 57.11.3470 | 47 Ohm    | 2X, 0.25W  | MF    |                             |        |
| C...44  | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | D...28  | 50.04.1114 | 10 V     | 5X    | 0.4W Zener                  |        | R...19  | 57.11.3821 | 820 Ohm  | 2X, 0.25W             | MF                          | R...157 | 57.11.3220 | 22 Ohm    | 2X, 0.25W  | MF    |                             |        |
| C...45  | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | IC...2  | 50.09.0105 | NE 5532  |       | Dual Op. Amp.               | Sig    | R...20  | 57.11.3123 | 12 kOhm  | 2X, 0.25W             | MF                          | R...158 | 57.11.3220 | 22 Ohm    | 2X, 0.25W  | MF    |                             |        |
| C...46  | 59.06.0333 | 33 nF    | 10X   | 50V PETF                    |        | IC...5  | 50.09.0105 | NE 5532  |       | Dual Op. Amp.               | Sig    | R...21  | 57.11.3222 | 2.2 kOhm | 2X, 0.25W             | MF                          | R...159 | 57.11.3470 | 47 Ohm    | 2X, 0.25W  | MF    |                             |        |
| C...47  | 59.06.0104 | 100 nF   | 10X   | 50V PETF                    |        | IC...6  | 50.09.0107 | RC 4559  |       | Dual Op. Amp.               | Ra     | R...22  | 57.11.3433 |          |                       |                             |         |            |           |            |       |                             |        |



## AUDIO ELECTRONICS BOARD 2/2 1.727.463.83

| IND. | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|---------|------------|----------|-----------------------------|--------|---|---------|----------|-------|-----------------------------|--------|
| R... | 236     | 57.11.3152 | 1.5 kOhm | 2%, 0.25W, MF               |        | Cer = Ceramic EL = Electrolytic PETP = Polyester<br>PP = Polypropylen MF = Metal Film SI = Silicon<br>MANUFACTURER: ADI = Analog Devices Inc. Mot = Motorola<br>NS = National Semiconductors Ra = Raytheon<br>Sig = Signetics St = Studer |         |          |       |                             |        |
| R... | 237     | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 238     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 239     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 240     | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 242     | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 243     | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 245     | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 246     | 58.01.8502 | 5 kOhm   | 10%, 0.5 W, PWM             |        |   |         |          |       |                             |        |
| R... | 247     | 57.11.3821 | 820 Ohm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 248     | 57.11.3392 | 3.9 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 249     |            |          | not used                    |        |   |         |          |       |                             |        |
| R... | 250     | 57.11.3153 | 15 kOhm  | 2%, 0.25W, MF               |        | ORIG 89/07/03   |         |          |       |                             |        |
| R... | 251     | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 252     | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 253     | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 254     | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 255     | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 256     | 57.11.3273 | 27 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 257     | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 258     | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 259     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 260     | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 261     | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 262     | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 263     | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 264     | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 265     | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 266     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 267     | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 268     | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 269     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 270     | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 271     | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 272     | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 273     | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |
| R... | 274     | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |   |         |          |       |                             |        |

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S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.83 PAGE 16

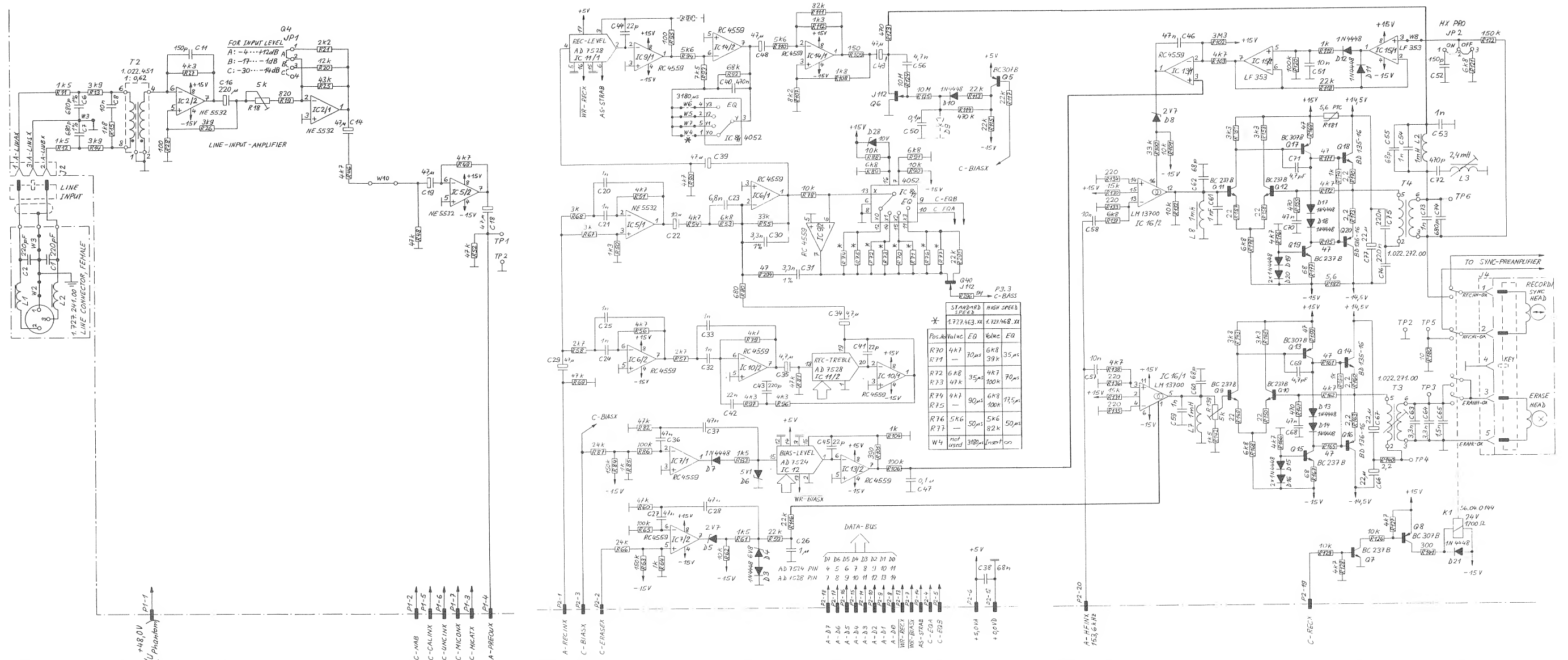
| IND.  | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-------|---------|--------------|----------|-----------------------------|--------|
| R...  | 275     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 276     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 277     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 278     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 279     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 280     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 281     | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...  | 282     | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...  | 283     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 284     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 285     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 286     | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 287     | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...  | 288     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 289     | 57.11.3471   | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 290     | 57.11.3391   | 390 Ohm  | 2%, 0.25W, MF               |        |
| R...  | 291     | 57.11.3152   | 1.5 kOhm | 2%, 0.25W, MF               |        |
| R...  | 292     | 57.92.1151   | 18 Ohm   | 150mA, PTC                  |        |
| R...  | 293     | 57.11.3180   | 18 Ohm   | 2%, 0.25W, MF               |        |
| R...  | 294     | 57.11.3470   | 47 Ohm   | 2%, 0.25W, MF               |        |
| R...  | 295     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...  | 296     | 57.11.3105   | 1 MOhm   | 2%, 0.25W, MF               |        |
| R...  | 297     | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| T.... | 2       | 1.022.451.00 | 1:0.62   | Line Input Trafo            | St     |
| T.... | 3       | 1.022.271.00 |          | Erase Trafo                 | St     |
| T.... | 4       | 1.022.272.00 |          | Bias Trafo                  | St     |
| T.... | 5       | 1.022.402.00 | 1:10     | Sync Trafo                  | St     |
| T.... | 6       | 1.022.355.00 |          | Line Output Trafo           | St     |
| TP... | 1       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP... | 2       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP... | 3       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP... | 4       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP... | 5       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP... | 6       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |
| TP... | 7       | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |

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| IND.   | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--------|---------|------------|---------|-----------------------------|--------|
| W....  | 3       | 64.01.0106 |         | Wire Bridge                 |        |
| W....  | 4       |            |         | not used                    |        |
| W....  | 5       | 64.01.0106 |         | Wire Bridge                 |        |
| W....  | 6       |            |         | not used                    |        |
| W....  | 7       | 64.01.0106 |         | Wire Bridge                 |        |
| W....  | 8       | 64.01.0106 |         | Wire Bridge                 |        |
| W....  | 10      | 64.01.0106 |         | Wire Bridge                 |        |
| W....  | 12      | 64.01.0106 |         | Wire Bridge                 |        |
| XIC... | 2       | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 5       | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 6       | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 7       | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 8       | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC... | 9       | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 10      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 11      | 53.03.0165 | 20-Pole | IC Socket                   |        |
| XIC... | 12      | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC... | 13      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 14      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 15      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 16      | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC... | 17      | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC... | 18      | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC... | 19      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 20      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 21      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 22      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 23      | 53.03.0165 | 20-Pole | IC Socket                   |        |
| XIC... | 24      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 25      | 53.03.0166 | 8-Pole  | IC Socket                   |        |
| XIC... | 26      | 53.03.0168 | 16-Pole | IC Socket                   |        |
| XIC... | 27      | 53.03.0166 | 8-Pole  | IC Socket                   |        |

S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.83 PAGE 15

**AUDIO ELECTRONICS BOARD 2/2 1.727.463.84**  
**-AUDIO ELECTRONICS BOARD 2/2 HS 1.727.468.81**

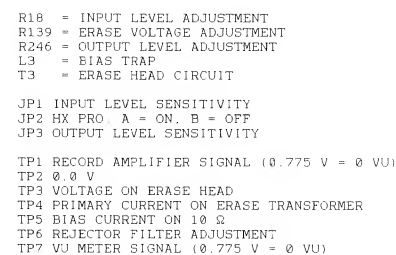
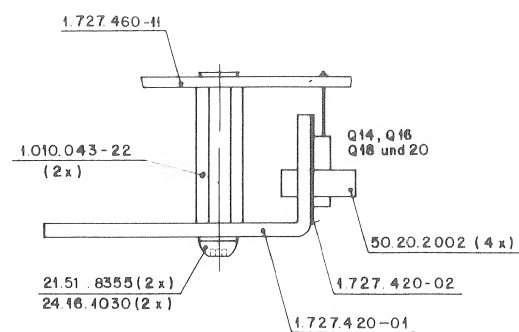


|              |                                |       |              |             |
|--------------|--------------------------------|-------|--------------|-------------|
| 0 22.3.90 GP | 0 . .                          | 0 . . | 0 . .        | 0 . .       |
|              | A 807 GR41/GR42                |       |              | PAGE 1 OF 6 |
| STUDER       | AUDIO ELECTRONICS BOARD 2/2    | SC    | 1.727.463.84 |             |
|              | AUDIO ELECTRONICS BOARD 2/2 HS |       | 1.727.468.81 |             |

|         |            |                                |               |   |    |   |    |              |    |
|---------|------------|--------------------------------|---------------|---|----|---|----|--------------|----|
| 0       | 22,3,90 GP | 0                              | ..            | 0 | .. | 0 | .. | 0            | .. |
|         |            |                                | A807 GR 41/42 |   |    |   |    | PAGE 2 OF 6  |    |
| STUDIER |            | AUDIO ELECTRONICS BOARD 212    |               |   |    |   | SC | 1.727.463.84 |    |
|         |            | AUDIO ELECTRONICS BOARD 212 HS |               |   |    |   |    | 1.727.468.81 |    |

|                |  |  |  |                                |              |
|----------------|--|--|--|--------------------------------|--------------|
| (0) 22.3.90 GP |  |  |  | A807 GR 41/42                  | PAGE 3 OF 6  |
| <b>STUDER</b>  |  |  |  | AUDIO ELECTRONICS BOARD 212 SC | 1.727.463.84 |
|                |  |  |  | AUDIO ELECTRONICS BOARD 212 HS | 1.727.468.81 |



 FACTORY STANDARD SETTING

STUDER A807 MKII

AUDIO ELECTRONICS BOARD 2/2 1.727.463.84

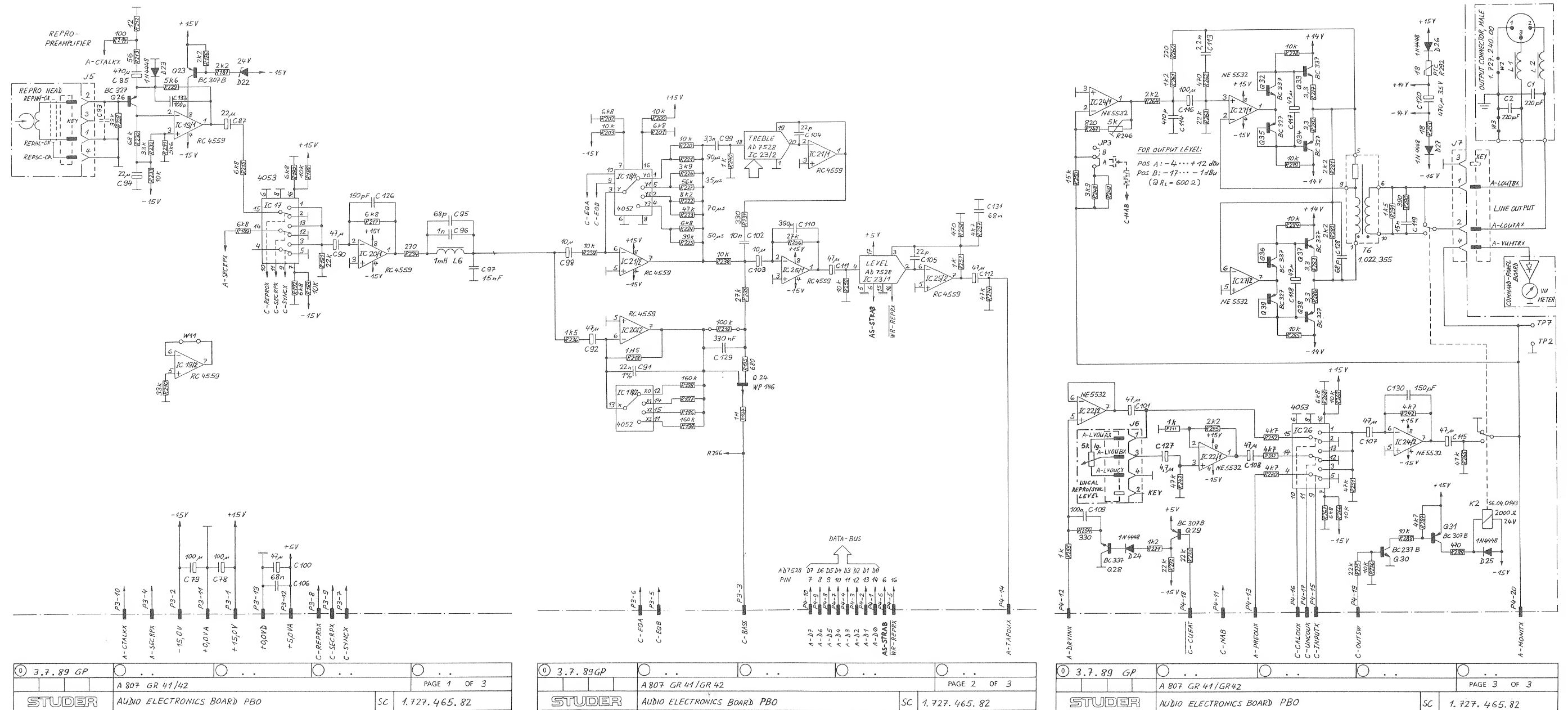
| IND.   | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--------|------------|----------|-------|-----------------------------|--------|---------|------------|----------|----------|-----------------------------|--------|---------|------------|----------|----------|-----------------------------|--------|---------|------------|----------|-------|-----------------------------|--------|
| C....6 | 59.05.1681 | 680 pF   | 1X    | 50V PP                      |        | C...128 | 59.34.4680 | 68 pF    | 10X      | 50V Cer                     |        | Q....16 | 50.03.0510 | BD136-16 |          |                             | PNP    | R...120 | 57.11.3104 | 100 kOhm | 2X    | 0.25W, MF                   |        |
| C....7 | 59.05.1681 | 680 pF   | 1X    | 50V PP                      |        | C...129 | 59.06.5334 | 330 nF   | 5X       | 50V PETF                    |        | Q....17 | 50.03.0515 | BC307B   |          |                             | PNP    | R...121 | 57.11.3682 | 6.8 kOhm | 2X    | 0.25W, MF                   |        |
| C...10 | 59.06.0103 | 10 nF    | 10X   | 50V PETF                    |        | C...130 | 59.34.4151 | 150 pF   | 10X      | 50V Cer                     |        | Q....18 | 50.03.0495 | BD135-16 |          |                             | NPN    | R...122 | 57.11.3154 | 150 kOhm | 2X    | 0.25W, MF                   |        |
| C...11 | 59.34.4151 | 150 pF   | 10X   | 50V Cer                     |        | C...131 | 59.06.0683 | 68 nF    | 10X      | 50V PETF                    |        | Q....19 | 50.03.0436 | BC237B   |          |                             | NPN    | R...123 | 57.11.3471 | 470 Ohm  | 2X    | 0.25W, MF                   |        |
| C...14 | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | C...135 | 59.22.3101 | 100 uF   | -20X     | 10V EL                      |        | Q....20 | 50.03.0510 | BD136-16 |          |                             | PNP    | R...124 | 57.11.5106 | 10 MOhm  | 5X    | 0.25W, MF                   |        |
| C...16 | 59.22.2221 | 220 uF   | -20X  | 6.3V EL                     |        |         |            |          |          |                             |        | Q....21 | 50.03.0350 | J112     |          |                             | FET    | R...125 | 57.11.5106 | 10 MOhm  | 5X    | 0.25W, MF                   |        |
| C...18 | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....3  | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....22 |            |          | not used |                             |        | R...126 | 57.11.3103 | 10 kOhm  | 2X    | 0.25W, MF                   |        |
| C...19 | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....4  | 50.04.1102 | 6.8 V    | 5X       | 0.4W Zener                  |        | Q....23 | 50.03.0515 | BC307B   |          |                             | PNP    | R...127 | 57.11.3472 | 4.7 kOhm | 2X    | 0.25W, MF                   |        |
| C...20 | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....5  | 50.04.1106 | 2.7 V    | 5X       | 0.4W Zener                  |        | Q....24 | 50.03.0329 | BP146    |          |                             | FET    | R...128 | 57.11.3472 | 4.7 kOhm | 2X    | 0.25W, MF                   |        |
| C...21 | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....6  | 50.04.1112 | 5.1 V    | 5X       | 0.4W Zener                  |        | Q....25 | 50.03.0625 | BC327    |          |                             | PNP    | R...129 | 57.11.3103 | 10 kOhm  | 2X    | 0.25W, MF                   |        |
| C...22 | 59.22.6100 | 10 uF    | -20X  | 35V EL                      |        | D....7  | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....26 | 50.03.0625 | BC327    |          |                             | PNP    | R...130 | 57.11.3153 | 15 kOhm  | 2X    | 0.25W, MF                   |        |
| C...23 | 59.06.5682 | 6.8 nF   | 5X    | 50V PETF                    |        | D....8  | 50.04.1106 | 2.7 V    | 5X       | 0.4W Zener                  |        | Q....28 | 50.03.0340 | BC337-25 |          |                             | NPN    | R...131 | 57.11.3153 | 15 kOhm  | 2X    | 0.25W, MF                   |        |
| C...24 | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....9  |            |          | not used |                             |        | Q....29 | 50.03.0515 | BC307B   |          |                             | NPN    | R...132 | 57.11.3103 | 10 kOhm  | 2X    | 0.25W, MF                   |        |
| C...25 | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....10 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....30 | 50.03.0436 | BC237B   |          |                             | NPN    | R...133 | 57.11.3221 | 220 Ohm  | 2X    | 0.25W, MF                   |        |
| C...26 | 59.06.0105 | 1 uF     | 10X   | 50V PETF                    |        | D....11 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....31 | 50.03.0515 | BC307B   |          |                             | NPN    | R...134 | 57.11.3221 | 220 Ohm  | 2X    | 0.25W, MF                   |        |
| C...27 | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....12 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....32 | 50.03.0516 | BC337    |          |                             | NPN    | R...135 | 57.11.3221 | 220 Ohm  | 2X    | 0.25W, MF                   |        |
| C...28 | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....13 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....33 | 50.03.0516 | BC337    |          |                             | NPN    | R...136 | 57.11.3221 | 220 Ohm  | 2X    | 0.25W, MF                   |        |
| C...29 | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....14 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....34 | 50.03.0625 | BC327    |          |                             | NPN    | R...137 | 57.11.3682 | 6.8 kOhm | 2X    | 0.25W, MF                   |        |
| C...30 | 59.05.1332 | 3.3 nF   | 1X    | 50V PP                      |        | D....15 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....35 | 50.03.0625 | BC327    |          |                             | NPN    | R...138 | 57.11.3472 | 4.7 kOhm | 2X    | 0.25W, MF                   |        |
| C...31 | 59.05.1332 | 3.3 nF   | 1X    | 50V PP                      |        | D....16 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....36 | 50.03.0516 | BC337    |          |                             | NPN    | R...139 | 56.01.8502 | 5 kOhm   | 10X   | 0.5 W, PMG                  |        |
| C...32 | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....17 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....37 | 50.03.0516 | BC337    |          |                             | NPN    | R...140 | 57.11.3229 | 2.2 Ohm  | 2X    | 0.25W, MF                   |        |
| C...33 | 59.05.2102 | 1 nF     | 2.5X  | 50V PP                      |        | D....18 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....38 | 50.03.0625 | BC327    |          |                             | NPN    | R...141 | 57.11.3301 | 300 Ohm  | 2X    | 0.25W, MF                   |        |
| C...34 | 59.22.8479 | 4.7 uF   | -20X  | 35V EL                      |        | D....19 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....39 | 50.03.0625 | BC327    |          |                             | NPN    | R...142 | 57.11.3152 | 1.5 kOhm | 2X    | 0.25W, MF                   |        |
| C...35 | 59.22.8479 | 4.7 uF   | -20X  | 35V EL                      |        | D....20 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | Q....40 | 50.03.0350 | J112     |          |                             | FET    | R...143 | 57.11.3332 | 3.3 kOhm | 2X    | 0.25W, MF                   |        |
| C...36 | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....21 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | R...11  | 57.11.3152 | 1.5 kOhm | 2X       | 0.25W, MF                   |        | R...145 | 57.11.3332 | 3.3 kOhm | 2X    | 0.25W, MF                   |        |
| C...37 | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | D....22 | 50.04.1121 | 24 V     | 5X       | 0.4W Zener                  |        | R...12  | 57.11.3152 | 1.5 kOhm | 2X       | 0.25W, MF                   |        | R...147 | 57.11.3471 | 470 Ohm  | 2X    | 0.25W, MF                   |        |
| C...38 | 59.06.0683 | 68 nF    | 10X   | 50V PETF                    |        | D....23 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | R...13  | 57.11.3392 | 3.9 kOhm | 2X       | 0.25W, MF                   |        | R...149 | 57.11.3220 | 22 Ohm   | 2X    | 0.25W, MF                   |        |
| C...39 | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | D....24 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | R...14  | 57.11.3392 | 3.9 kOhm | 2X       | 0.25W, MF                   |        | R...150 | 57.11.3220 | 22 Ohm   | 2X    | 0.25W, MF                   |        |
| C...40 | 59.06.5474 | 470 nF   | 5X    | 50V PETF                    |        | D....25 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | R...15  | 57.11.3182 | 1.8 kOhm | 2X       | 0.25W, MF                   |        | R...151 | 57.11.3332 | 3.3 kOhm | 2X    | 0.25W, MF                   |        |
| C...41 | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | D....26 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | R...16  | 57.11.3182 | 1.8 kOhm | 2X       | 0.25W, MF                   |        | R...153 | 57.11.3332 | 3.3 kOhm | 2X    | 0.25W, MF                   |        |
| C...42 | 59.06.0223 | 22 nF    | 10X   | 50V PETF                    |        | D....27 | 50.04.0125 | 1N4448   |          | 50V SI                      |        | R...17  | 56.01.8502 | 5 kOhm   | 10X      | 0.5 W, PMG                  |        | R...155 | 57.11.3471 | 470 Ohm  | 2X    | 0.25W, MF                   |        |
| C...43 | 59.34.4221 | 220 pF   | 5X    | 50V Cer                     |        | D....28 | 50.04.1114 | 10 V     | 5X       | 0.4W Zener                  |        | R...19  | 57.11.3821 | 820 Ohm  | 2X       | 0.25W, MF                   |        | R...157 | 57.11.3220 | 22 Ohm   | 2X    | 0.25W, MF                   |        |
| C...44 | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        |         |            |          |          |                             |        | R...20  | 57.11.3123 | 12 kOhm  | 2X       | 0.25W, MF                   |        | R...158 | 57.11.3220 | 22 Ohm   | 2X    | 0.25W, MF                   |        |
| C...45 | 59.34.2220 | 22 pF    | 10X   | 50V Cer                     |        | IC....2 | 50.09.0105 | NE 5532  |          | Dual Op. Amp.               | Sig    | R...21  | 57.11.3222 | 2.2 kOhm | 2X       | 0.25W, MF                   |        | R...159 | 57.11.3470 | 47 Ohm   | 2X    | 0.25W, MF                   |        |
| C...46 | 59.06.0473 | 47 nF    | 10X   | 50V PETF                    |        | IC....5 | 50.09.0105 | NE 5532  |          | Dual Op. Amp.               | Sig    | R...25  | 57.11.3433 | 43 kOhm  | 2X       | 0.25W, MF                   |        | R...160 | 57.11.3229 | 2.2 Ohm  | 2X    | 0.25W, MF                   |        |
| C...47 | 59.06.0104 | 100 nF   | 10X   | 50V PETF                    |        | IC....6 | 50.09.0107 | RC 4559  |          | Dual Op. Amp.               | Ra     | R...26  | 57.11.3392 | 3.9 kOhm | 2X       | 0.25W, MF                   |        | R...161 | 57.11.3470 | 47 Ohm   | 2X    | 0.25W, MF                   |        |
| C...48 | 59.22.3470 | 47 uF    | -20X  | 10V EL                      |        | IC....7 | 50.09.0107 | RC 4559  |          | Dual Op. Amp.               | Ra     | R...27  |            |          |          |                             |        |         |            |          |       |                             |        |



## AUDIO ELECTRONICS BOARD 2/2 1.727.463.84

| IND.   | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|---------|--------------|----------|-----------------------------|--------|---|---------|----------|-------|-----------------------------|--------|
| R...237  |         | 57.11.3331   | 330 Ohm  | 2X, 0.25W, MF               |        | Cer = Ceramic EL = Electrolytic PETP = Polyester<br>PP = Polypropylene MF = Metal Film SI = Silicon                                 |         |          |       |                             |        |
| R...238  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        | MANUFACTURER: ADI = Analog Devices Inc. Mot = Motorola<br>NS = National Semiconductors Ra = Raytheon<br>Sig = Signetics St = Studer |         |          |       |                             |        |
| R...239  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...240  |         | 57.11.3102   | 1 kOhm   | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...242  |         | 57.11.3472   | 4.7 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...243  |         | 57.11.3473   | 47 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...245  |         | 57.11.3222   | 2.2 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...246  |         | 58.01.8502   | 5 kOhm   | 10X, 0.5 W, PMG             |        |   |         |          |       |                             |        |
| R...247  |         | 57.11.3821   | 820 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...248  |         | 57.11.3392   | 3.9 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...249  |         |              |          | not used                    |        |   |         |          |       |                             |        |
| R...250  |         | 57.11.3153   | 15 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...251  |         | 57.11.3473   | 47 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...252  |         | 57.11.3472   | 4.7 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...253  |         | 57.11.3472   | 4.7 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...254  |         | 57.11.3331   | 330 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...255  |         | 57.11.3102   | 1 kOhm   | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...256  |         | 57.11.3273   | 27 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...257  |         | 57.11.3102   | 1 kOhm   | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...258  |         | 57.11.3471   | 470 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...259  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...260  |         | 57.11.3221   | 220 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...261  |         | 57.11.3122   | 1.2 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...262  |         | 57.11.3471   | 470 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...263  |         | 57.11.3223   | 22 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...264  |         | 57.11.3222   | 2.2 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...265  |         | 57.11.3473   | 47 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...266  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...267  |         | 57.11.3682   | 6.8 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...268  |         | 57.11.3682   | 6.8 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...269  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...270  |         | 57.11.3472   | 4.7 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...271  |         | 57.11.3122   | 1.2 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...272  |         | 57.11.3223   | 22 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...273  |         | 57.11.3223   | 22 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...274  |         | 57.11.3473   | 47 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...275  |         | 57.11.3223   | 22 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| S T U D E R (00) 90/03/12 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.84 PAGE 13 |         |              |          |                             |        | S T U D E R (00) 90/03/12 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.84 PAGE 16  |         |          |       |                             |        |
| IND.   | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |   |         |          |       |                             |        |
| R...276  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...277  |         | 57.11.3339   | 3.3 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...278  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...279  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...280  |         | 57.11.3339   | 3.3 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...281  |         | 57.11.3222   | 2.2 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...282  |         | 57.11.3222   | 2.2 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...283  |         | 57.11.3339   | 3.3 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...284  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...285  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...286  |         | 57.11.3339   | 3.3 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...287  |         | 57.11.3472   | 4.7 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...288  |         | 57.11.3103   | 10 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...289  |         | 57.11.3471   | 470 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...290  |         | 57.11.3331   | 330 Ohm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...291  |         | 57.11.3152   | 1.5 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...292  |         | 57.92.1151   | 18 Ohm   | 150mA, PTC                  |        |   |         |          |       |                             |        |
| R...293  |         | 57.11.3180   | 18 Ohm   | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...294  |         | 57.11.3470   | 47 Ohm   | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...295  |         | 57.11.3223   | 22 kOhm  | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...296  |         | 57.11.3105   | 1 Mohm   | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| R...297  |         | 57.11.3472   | 4.7 kOhm | 2X, 0.25W, MF               |        |   |         |          |       |                             |        |
| T....2   |         | 1.022.451.00 | 1:0.62   | Line Input Trafo            | St     |   |         |          |       |                             |        |
| T....3   |         | 1.022.271.00 |          | Erase Trafo                 | St     |   |         |          |       |                             |        |
| T....4   |         | 1.022.272.00 |          | Bias Trafo                  | St     |   |         |          |       |                             |        |
| T....5   |         | 1.022.402.00 | 1:10     | Syns Trafo                  | St     |   |         |          |       |                             |        |
| T....6   |         | 1.022.355.00 |          | Line Output Trafo           | St     |   |         |          |       |                             |        |
| TP....1  |         | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |   |         |          |       |                             |        |
| TP....2  |         | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |   |         |          |       |                             |        |
| TP....3  |         | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |   |         |          |       |                             |        |
| TP....4  |         | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |   |         |          |       |                             |        |
| TP....5  |         | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |   |         |          |       |                             |        |
| TP....6  |         | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |   |         |          |       |                             |        |
| TP....7  |         | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |   |         |          |       |                             |        |
| S T U D E R (00) 90/03/12 GP AUDIO ELECTRONICS BOARD 2/2 PL 1.727.463.84 PAGE 14 |         |              |          |                             |        |   |         |          |       |                             |        |
| IND.   | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |   |         |          |       |                             |        |
| W....3   |         | 64.01.0106   |          | Wire Bridge                 |        |   |         |          |       |                             |        |
| W....4   |         |              |          | not used                    |        |   |         |          |       |                             |        |
| W....5   |         | 64.01.0106   |          | Wire Bridge                 |        |   |         |          |       |                             |        |
| W....6   |         |              |          | not used                    |        |   |         |          |       |                             |        |
| W....7   |         | 64.01.0106   |          | Wire Bridge                 |        |   |         |          |       |                             |        |
| W....8   |         | 64.01.0106   |          | Wire Bridge                 |        |   |         |          |       |                             |        |
| W....10  |         | 64.01.0106   |          | Wire Bridge                 |        |   |         |          |       |                             |        |
| W....12  |         | 64.01.0106   |          | Wire Bridge                 |        |   |         |          |       |                             |        |
| W....13  |         | 1.010.329.64 |          | Wire Bridge                 |        |   |         |          |       |                             |        |
| XIC...2  |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...5  |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...6  |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...7  |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...8  |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...9  |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...10   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...11   |         | 53.03.0165   | 20-Pole  | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...12   |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...13   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...14   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...15   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...16   |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...17   |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...18   |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...19   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...20   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...21   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...22   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...23   |         | 53.03.0165   | 20-Pole  | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...24   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |
| XIC...25   |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |   |         |          |       |                             |        |

**AUDIO ELECTRONICS BOARD PBO 1.727.465.82**

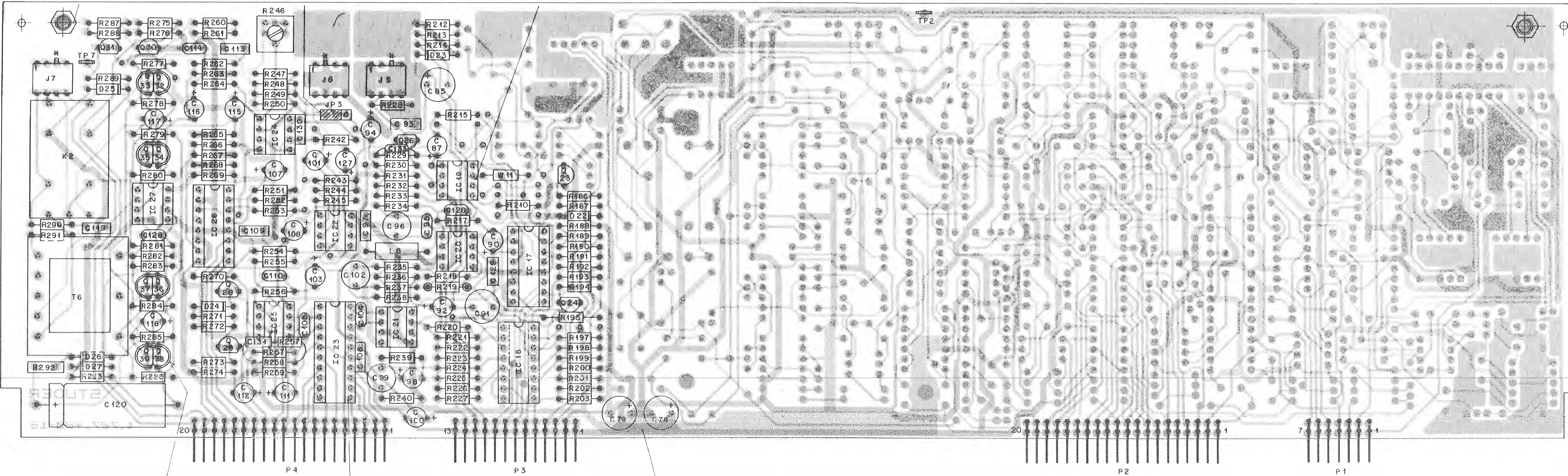


AUDIO ELECTRONICS BOARD PBO 1.727.465.82

1040 013-22 (2 x)

Bestückt

53.03 0466 (7 x)



54.20.2001 (4 x)

53.03.0465


1.727.420-12

R246 = OUTPUT LEVEL ADJUSTMENT

JP3 OUTPUT LEVEL SENSITIVITY

TP2 0.0 V

TP7 VU METER SIGNAL (0.775 V = 0 VU)

 FACTORY STANDARD SETTING

| IND. | POS.NO. | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO. | PART NO.   | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.  | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND. | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|------|---------|------------|--------|-----------------------------|--------|-------|---------|------------|-----------|-----------------------------|--------|-------|---------|--------------|----------|-----------------------------|--------|------|---------|------------|----------|-----------------------------|--------|
| C... | 78      | 59.22.5101 | 100 uF | -20% 25V EL                 |        | C...  | 127     | 59.22.8479 | 4.7 uF    | -20% 35V EL                 |        | MP... | 7       | 50.20.2001   | 4 pcs    | Clip, 24T092                |        | R... | 195     | 57.11.3681 | 680 Ohm  | 2%, 0.25W, MF               |        |
| C... | 79      | 59.22.5101 | 100 uF | -20% 25V EL                 |        | C...  | 128     | 59.34.4680 | 68 pF     | 10% 50V Cer                 |        | MP... | 10      | 1.727.465.10 | 1 pcs    | No. Label                   |        | R... | 196     |            |          | not used                    |        |
| C... | 85      | 59.22.2471 | 470 uF | -20% 6.3V EL                |        | C...  | 129     | 59.06.5334 | 330 nF    | 5% 50V PETP                 |        | MP... | 11      | 1.727.420.12 | 1 pcs    | Audio Electronics PCB       |        | R... | 197     |            |          | not used                    |        |
| C... | 87      | 59.22.5220 | 22 uF  | -20% 25V EL                 |        | C...  | 130     | 59.34.4151 | 150 pF    | 10% 50V Cer                 |        | MP... | 13      | 1.010.013.22 | 2 pcs    | Rivet Mat M3x3              |        | R... | 198     | 57.11.3164 | 160 kOhm | 2%, 0.25W, MF               |        |
| C... | 89      |            |        | not used                    |        | C...  | 131     | 59.06.0683 | 68 nF     | 10% 50V PETP                |        | MP... | 15      | 43.01.0106   | 1 pcs    | ESD Warning Label           |        | R... | 199     | 57.11.3164 | 160 kOhm | 2%, 0.25W, MF               |        |
| C... | 90      | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | C...  | 133     | 59.34.4101 | 100 pF    | 5% 50V Cer                  |        | MP... | 16      | 53.03.0228   | 2 pcs    | 1-Pole Socket (R219)        |        | R... | 200     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| C... | 91      | 59.05.1223 | 22 nF  | 1% 50V PP                   |        | D...  | 22      | 50.04.1121 | 24 V      | 5X 0.4W Zener               |        | P...  | 1       | 54.01.0223   | 7-Pole   | CIS Pin Strip               |        | R... | 201     | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| C... | 92      | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | D...  | 23      | 50.04.0125 | 1N4448    | 50V SI                      |        | P...  | 2       | 54.01.0261   | 20-Pole  | CIS Pin Strip               |        | R... | 202     | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| C... | 93      |            |        | not used                    |        | D...  | 24      | 50.04.0125 | 1N4448    | 50V SI                      |        | P...  | 3       | 54.01.0273   | 13-Pole  | CIS Pin Strip               |        | R... | 203     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| C... | 94      | 59.22.5220 | 22 uF  | -20% 25V EL                 |        | D...  | 25      | 50.04.0125 | 1N4448    | 50V SI                      |        | P...  | 4       | 54.01.0261   | 20-Pole  | CIS Pin Strip               |        | R... | 210     | 57.11.3333 | 33 kOhm  | 2%, 0.25W, MF               |        |
| C... | 95      | 59.34.4680 | 68 pF  | 10% 50V Cer                 |        | D...  | 26      | 50.04.0125 | 1N4448    | 50V SI                      |        | Q...  | 23      | 50.03.0515   | BC307B   | BC557B, BC560B              | PNP    | R... | 212     | 57.11.3120 | 12 Ohm   | 2%, 0.25W, MF               |        |
| C... | 96      | 59.05.2102 | 1 nF   | 2.5% 50V PP                 |        | D...  | 27      | 50.04.0125 | 1N4448    | 50V SI                      |        | Q...  | 24      | 50.03.0329   | WP146    |                             | FET    | R... | 213     | 57.11.3560 | 56 Ohm   | 2%, 0.25W, MF               |        |
| C... | 97      | 59.06.0153 | 15 nF  | 10% 50V PETP                |        | IC... | 17      | 50.07.0015 | MC 14053  | CMOS Analog Switch          | Not    | Q...  | 26      | 50.03.0625   | BC327    |                             | PNP    | R... | 214     | 57.11.3101 | 100 Ohm  | 2%, 0.25W, MF               |        |
| C... | 98      | 59.22.6100 | 10 nF  | -20% 35V EL                 |        | IC... | 18      | 50.07.0024 | MC 14052  | CMOS Analog Switch          | Not    | Q...  | 28      | 50.03.0340   | BC337-25 |                             | NPN    | R... | 215     | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| C... | 99      | 59.05.2332 | 3.3 nF | 2.5% 50V PP                 |        | IC... | 19      | 50.09.0107 | RC 4559   | Dual Op. Amp.               | Ra     | Q...  | 29      | 50.03.0515   | BC307B   | BC557B, BC560B              | NPN    | R... | 217     | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| C... | 100     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | IC... | 20      | 50.09.0107 | RC 4559   | Dual Op. Amp.               | Ra     | Q...  | 30      | 50.03.0436   | BC237B   | BC547B, BC550B              | NPN    | R... | 218     | 57.11.5155 | 1.5 MOhm | 5%, 0.25W, MF               |        |
| C... | 101     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | IC... | 21      | 50.09.0107 | RC 4559   | Dual Op. Amp.               | Ra     | Q...  | 31      | 50.03.0515   | BC307B   | BC557B, BC560B              | NPN    | R... | 219     | 57.11.3104 | 100 kOhm | 2%, 0.25W, MF, with socket  |        |
| C... | 102     | 59.05.2103 | 10 nF  | 2.5% 50V PP                 |        | IC... | 22      | 50.09.0105 | NE 5532   | Dual Op. Amp.               | Sig    | Q...  | 32      | 50.03.0516   | BC337    | matched with Q33, NPN       |        | R... | 220     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| C... | 103     | 59.22.6100 | 10 nF  | -20% 35V EL                 |        | IC... | 23      | 50.07.0026 | AD 7528JN | Dual 8-bit D/A Converter    | ADI    | Q...  | 33      | 50.03.0516   | BC337    | matched with Q32, NPN       |        | R... | 221     | 57.11.3560 | 56 Ohm   | 2%, 0.25W, MF               |        |
| C... | 104     | 59.34.2220 | 22 pF  | 10% 50V Cer                 |        | IC... | 24      | 50.09.0105 | NE 5532   | Dual Op. Amp.               | Sig    | Q...  | 34      | 50.03.0625   | BC327    | matched with Q35, PNP       |        | R... | 222     | 57.11.3822 | 8.2 kOhm | 2%, 0.25W, MF               |        |
| C... | 106     | 59.06.0683 | 68 nF  | 10% 50V PETP                |        | IC... | 25      | 50.09.0107 | RC 4559   | Dual Op. Amp.               | Ra     | Q...  | 35      | 50.03.0625   | BC327    | matched with Q34, PNP       |        | R... | 223     | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| C... | 107     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | IC... | 26      | 50.07.0015 | MC 14053  | CMOS Analog Switch          | Not    | Q...  | 36      | 50.03.0516   | BC337    | matched with Q37, NPN       |        | R... | 224     | 57.11.3562 | 5.6 kOhm | 2%, 0.25W, MF               |        |
| C... | 108     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | IC... | 27      | 50.09.0105 | NE 5532   | Dual Op. Amp.               | Sig    | Q...  | 37      | 50.03.0516   | BC337    | matched with Q36, NPN       |        | R... | 225     | 57.11.3393 | 3.9 kOhm | 2%, 0.25W, MF               |        |
| C... | 109     | 59.06.0104 | 100 nF | 10% 50V PETP                |        | J...  | 5       | 54.01.0304 | 4-Pole    | CIS Socket Strip            | AMP    | Q...  | 38      | 50.03.0625   | BC327    | matched with Q39, PNP       |        | R... | 226     | 57.11.3392 | 3.9 kOhm | 2%, 0.25W, MF               |        |
| C... | 110     | 59.34.5391 | 390 pF | 10% 50V Cer                 |        | J...  | 6       | 54.01.0304 | 4-Pole    | CIS Socket Strip            | AMP    | Q...  | 39      | 50.03.0625   | BC327    | matched with Q38, PNP       |        | R... | 227     | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| C... | 111     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | J...  | 7       | 54.01.0304 | 4-Pole    | CIS Socket Strip            | AMP    | R...  | 186     | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        | R... | 228     | 57.11.3683 | 68 kOhm  | 2%, 0.25W, MF               |        |
| C... | 112     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | JP... | 3       | 54.01.0021 |           | Bridge                      |        | R...  | 187     | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        | R... | 229     | 57.11.3562 | 5.6 kOhm | 2%, 0.25W, MF               |        |
| C... | 113     | 59.06.0222 | 2.2 nF | 10% 50V PETP                |        | K...  | 2       | 56.04.0143 | 2u        | Relay, 24V, 2000 Ohm        |        | R...  | 188     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        | R... | 230     | 57.11.3683 | 68 kOhm  | 2%, 0.25W, MF               |        |
| C... | 114     | 59.34.5471 | 470 pF | 10% 50V Cer                 |        | L...  | 6       | 62.01.0128 | 1mH       |                             |        | R...  | 189     | 57.11.3682   | 6.8 kOhm | 2%, 0.25W, MF               |        | R... | 231     | 57.11.3562 | 5.6 kOhm | 2%, 0.25W, MF               |        |
| C... | 115     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        | MP... | 3       | 54.01.0020 | 3 pcs     | Contact Pin JP3             |        | R...  | 190     | 57.11.3682   | 6.8 kOhm | 2%, 0.25W, MF               |        | R... | 232     | 57.11.3333 | 33 kOhm  | 2%, 0.25W, MF               |        |
| C... | 116     | 59.22.3101 | 100 uF | -20% 10V EL                 |        |       |         |            |           |                             |        | R...  | 191     | 57.11.3223   | 22 kOhm  | 2%, 0.25W, MF               |        | R... | 233     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| C... | 117     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        |       |         |            |           |                             |        | R...  | 192     | 57.11.3682   | 6.8 kOhm | 2%, 0.25W, MF               |        | R... | 234     | 57.11.3271 | 270 Ohm  | 2%, 0.25W, MF               |        |
| C... | 118     | 59.22.3470 | 47 uF  | -20% 10V EL                 |        |       |         |            |           |                             |        | R...  | 193     | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        | R... | 235     | 57.11.3273 | 27 kOhm  | 2%, 0.25W, MF               |        |
| C... | 119     | 59.06.0153 | 15 nF  | 10% 50V PETP                |        |       |         |            |           |                             |        | R...  | 194     | 57.11.3105   | 1 MOhm   | 2%, 0.25W, MF               |        | R... | 236     | 57.11.3152 | 1.5 kOhm | 2%, 0.25W, MF               |        |
| C... | 120     | 59.25.5471 | 470 nF | -20% 35V Cer                |        |       |         |            |           |                             |        | R...  | 195     |              |          |                             |        | R... | 237     | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF               |        |
| C... | 126     | 59.34.4151 | 150 pF | 10% 50V Cer                 |        |       |         |            |           |                             |        | R...  | 196     |              |          |                             |        | R... | 238     | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |

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## AUDIO ELECTRONICS BOARD PBO 1.727.465.82

| IND.    | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|---------|------------|----------|-----------------------------|--------|
| R...240 |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R...242 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...243 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...244 |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R...245 |         | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...246 |         | 58.01.8502 | 5 kOhm   | 10%, 0.5 W, PMG             |        |
| R...247 |         | 57.11.3821 | 820 Ohm  | 2%, 0.25W, MF               |        |
| R...248 |         | 57.11.3392 | 3.9 kOhm | 2%, 0.25W, MF               |        |
| R...249 |         |            |          | not used                    |        |
| R...250 |         | 57.11.3153 | 15 kOhm  | 2%, 0.25W, MF               |        |
| R...251 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...252 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...253 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...254 |         | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF               |        |
| R...255 |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R...256 |         | 57.11.3273 | 27 kOhm  | 2%, 0.25W, MF               |        |
| R...257 |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R...258 |         | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...259 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...260 |         | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF               |        |
| R...261 |         | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |
| R...262 |         | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...263 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...264 |         | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...265 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...266 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...267 |         | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R...268 |         | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R...269 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...270 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...271 |         | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |
| R...272 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...273 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...274 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...275 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...276 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...277 |         | 57.11.3339 | 3.3 Ohm  | 2%, 0.25W, MF               |        |

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| IND.     | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|--------------|----------|-----------------------------|--------|
| R...278  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...279  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...280  |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...281  |         | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...282  |         | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...283  |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...284  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...285  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...286  |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...287  |         | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...288  |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...289  |         | 57.11.3471   | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...290  |         | 57.11.3391   | 390 Ohm  | 2%, 0.25W, MF               |        |
| R...291  |         | 57.11.3152   | 1.5 kOhm | 2%, 0.25W, MF               |        |
| R...292  |         | 57.92.1151   | 18 Ohm   | 150mA, FTC                  |        |
| R...293  |         | 57.11.3180   | 18 Ohm   | 2%, 0.25W, MF               |        |
| R...297  |         | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| T....6   |         | 1.022.355.00 |          | Line Output Trafo           | St     |
| TP....2  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....7  |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| W....11  |         | 57.11.3000   |          | Wire Bridge                 |        |
| XIC...17 |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC...18 |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC...19 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC...20 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC...21 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC...22 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC...23 |         | 53.03.0165   | 20-Pole  | IC Socket                   |        |
| XIC...24 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC...25 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC...26 |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC...27 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |

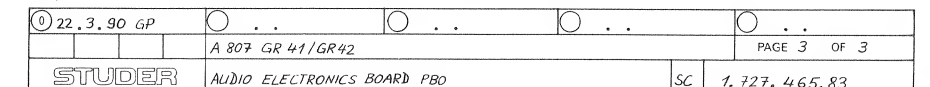
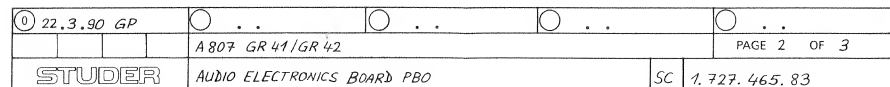
S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD PBO PL 1.727.465.82 PAGE 6

| IND.   | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|---------|----------|-------|-----------------------------|--------|
| Cer = Ceramic EL = Electrolytic PETP = Polyester       |         |          |       |                             |        |
| PP = Polypropylen MF = Metal Film SI = Silicon         |         |          |       |                             |        |
| MANUFACTURER: ADI = Analog Devices Inc. Mot = Motorola |         |          |       |                             |        |
| NS = National Semiconductors Ra = Raytheon             |         |          |       |                             |        |
| Sig = Signetics St = Studer                            |         |          |       |                             |        |

ORIG 89/07/03

S T U D E R (00) 89/07/03 GP AUDIO ELECTRONICS BOARD PBO PL 1.727.465.82 PAGE 7

|        |            |                             |                |   |    |   |    |              |      |
|--------|------------|-----------------------------|----------------|---|----|---|----|--------------|------|
| 0      | 22.3.90 GP | 0                           | ..             | 0 | .. | 0 | .. | 0            | ..   |
|        |            |                             | A 807 GR 41/42 |   |    |   |    | PAGE 1       | OF 3 |
| STUDER |            | AUDIO ELECTRONICS BOARD PBO |                |   |    |   | SC | 1.727.465.83 |      |





 FACTORY STANDARD SETTING

TP2 0.0 V  
TP7 VU METER SIGNAL (0.775 V = 0 VU)

|             |      |             |                             |                 |      |   |             |      |             |                             |                 |      |   |             |      |             |                             |                 |      |   |             |      |             |                             |                 |      |   |
|-------------|------|-------------|-----------------------------|-----------------|------|---|-------------|------|-------------|-----------------------------|-----------------|------|---|-------------|------|-------------|-----------------------------|-----------------|------|---|-------------|------|-------------|-----------------------------|-----------------|------|---|
| S T U D E R | (00) | 90/03/12 GP | AUDIO ELECTRONICS BOARD PBO | PL 1.727.465.83 | PAGE | 1 | S T U D E R | (00) | 90/03/12 GP | AUDIO ELECTRONICS BOARD PBO | PL 1.727.465.83 | PAGE | 2 | S T U D E R | (00) | 90/03/12 GP | AUDIO ELECTRONICS BOARD PBO | PL 1.727.465.83 | PAGE | 3 | S T U D E R | (00) | 90/03/12 GP | AUDIO ELECTRONICS BOARD PBO | PL 1.727.465.83 | PAGE | 4 |
|-------------|------|-------------|-----------------------------|-----------------|------|---|-------------|------|-------------|-----------------------------|-----------------|------|---|-------------|------|-------------|-----------------------------|-----------------|------|---|-------------|------|-------------|-----------------------------|-----------------|------|---|

## AUDIO ELECTRONICS BOARD PBO 1.727.465.83

| IND.    | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|---------|------------|----------|-----------------------------|--------|
| R...242 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...243 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...244 |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R...245 |         | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...246 |         | 58.01.8502 | 5 kOhm   | 10%, 0.5 W, PMG             |        |
| R...247 |         | 57.11.3821 | 820 Ohm  | 2%, 0.25W, MF               |        |
| R...248 |         | 57.11.3392 | 3.9 kOhm | 2%, 0.25W, MF               |        |
| R...249 |         |            |          | not used                    |        |
| R...250 |         | 57.11.3153 | 15 kOhm  | 2%, 0.25W, MF               |        |
| R...251 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...252 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...253 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...254 |         | 57.11.3331 | 330 Ohm  | 2%, 0.25W, MF               |        |
| R...255 |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R...256 |         | 57.11.3273 | 27 kOhm  | 2%, 0.25W, MF               |        |
| R...257 |         | 57.11.3102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R...258 |         | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...259 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...260 |         | 57.11.3221 | 220 Ohm  | 2%, 0.25W, MF               |        |
| R...261 |         | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |
| R...262 |         | 57.11.3471 | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...263 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...264 |         | 57.11.3222 | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...265 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...266 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...267 |         | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R...268 |         | 57.11.3682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R...269 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...270 |         | 57.11.3472 | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...271 |         | 57.11.3122 | 1.2 kOhm | 2%, 0.25W, MF               |        |
| R...272 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...273 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...274 |         | 57.11.3473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R...275 |         | 57.11.3223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R...276 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...277 |         | 57.11.3339 | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...278 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |

STUDER (00) 90/03/12 GP AUDIO ELECTRONICS BOARD PBO PL 1.727.465.83 PAGE 5

| IND.    | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|---------|--------------|----------|-----------------------------|--------|
| R...279 |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...280 |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...281 |         | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...282 |         | 57.11.3222   | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R...283 |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...284 |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...285 |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...286 |         | 57.11.3339   | 3.3 Ohm  | 2%, 0.25W, MF               |        |
| R...287 |         | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| R...288 |         | 57.11.3103   | 10 kOhm  | 2%, 0.25W, MF               |        |
| R...289 |         | 57.11.3471   | 470 Ohm  | 2%, 0.25W, MF               |        |
| R...290 |         | 57.11.3391   | 390 Ohm  | 2%, 0.25W, MF               |        |
| R...291 |         | 57.11.3152   | 1.5 kOhm | 2%, 0.25W, MF               |        |
| R...292 |         | 57.92.1151   | 18 Ohm   | 150mA, ETC                  |        |
| R...293 |         | 57.11.3180   | 18 Ohm   | 2%, 0.25W, MF               |        |
| R...297 |         | 57.11.3472   | 4.7 kOhm | 2%, 0.25W, MF               |        |
| T....6  |         | 1.022.355.00 |          | Line Output Trafo           | St     |
| TP....2 |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| TP....7 |         | 54.02.0320   |          | Plug 2.8x0.8                | AMP    |
| W....11 |         | 57.11.3000   |          | Wire Bridge                 |        |
| XIC..17 |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC..18 |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC..19 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC..20 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC..21 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC..22 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC..23 |         | 53.03.0165   | 20-Pole  | IC Socket                   |        |
| XIC..24 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC..25 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |
| XIC..26 |         | 53.03.0168   | 16-Pole  | IC Socket                   |        |
| XIC..27 |         | 53.03.0166   | 8-Pole   | IC Socket                   |        |

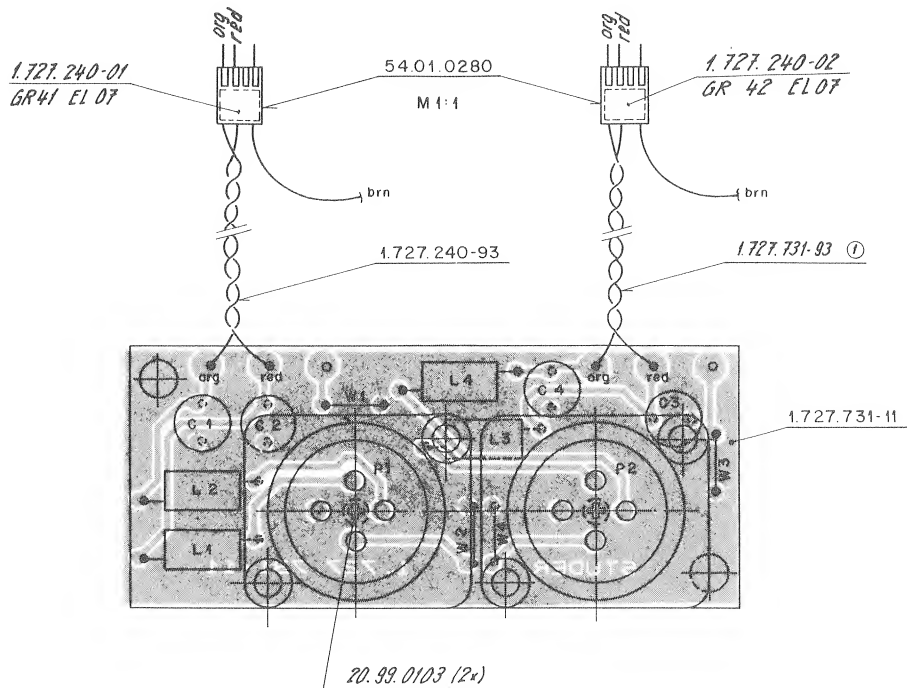
STUDER (00) 90/03/12 GP AUDIO ELECTRONICS BOARD PBO PL 1.727.465.83 PAGE 6

| IND.   | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|---------|----------|-------|-----------------------------|--------|
| Cer = Ceramic EL = Electrolytic PETP = Polyester       |         |          |       |                             |        |
| PP = Polypropylen MF = Metal Film SI = Silicon         |         |          |       |                             |        |
| MANUFACTURER: ADI = Analog Devices Inc. Mot = Motorola |         |          |       |                             |        |
| NS = National Semiconductors Ra = Raytheon             |         |          |       |                             |        |
| Sig = Signetics St = Studer                            |         |          |       |                             |        |

ORIG 90/03/12

STUDER (00) 90/03/12 GP AUDIO ELECTRONICS BOARD PBO PL 1.727.465.83 PAGE 7

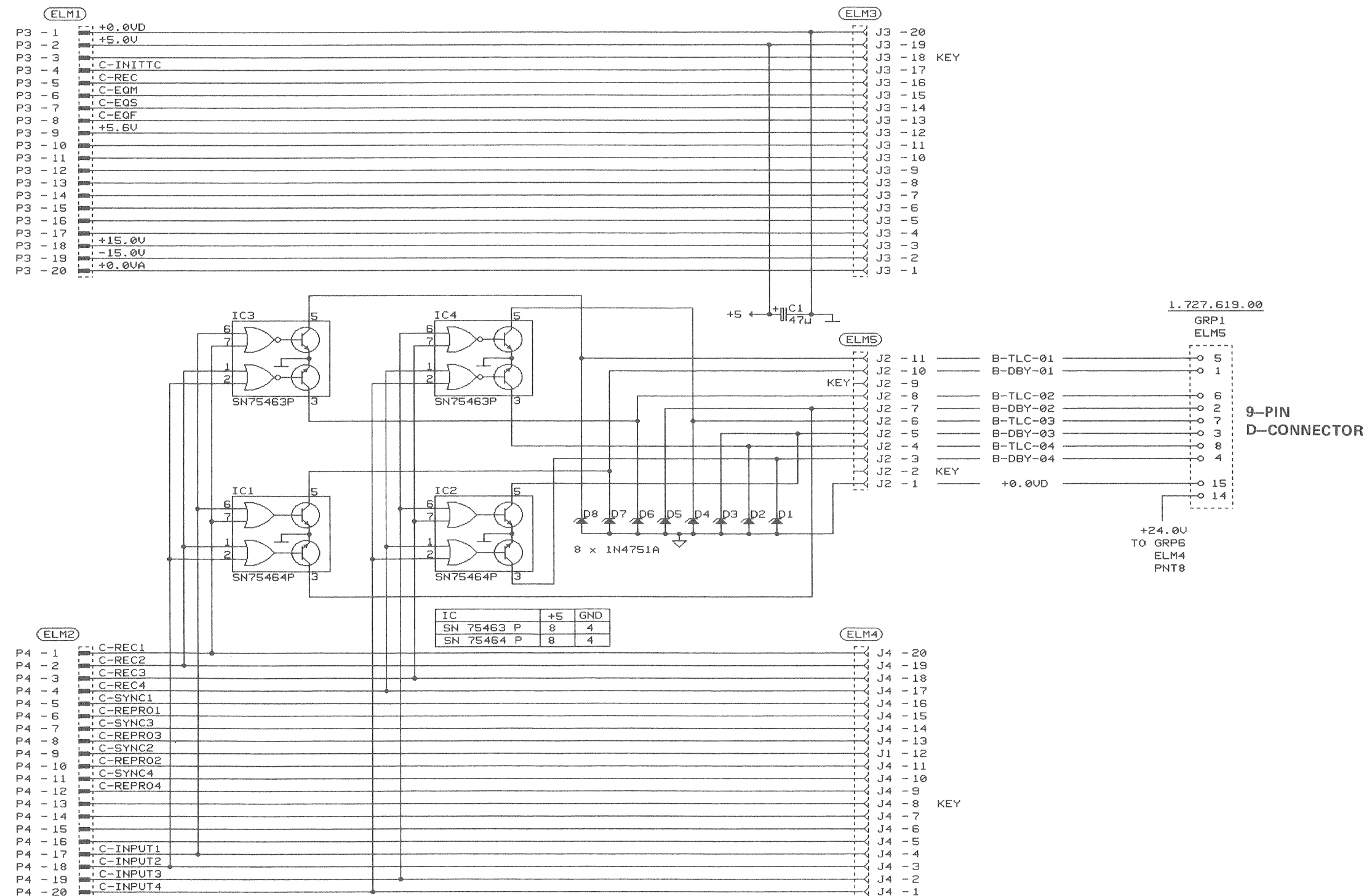
OUTPUT CONNECTOR (2CH) 1.727.731.00



| IND.    | POS.NO. | PART NO.     | VALUE  | SPECIFICATIONS / EQUIVALENT |      |    | MANUF. |
|---------|---------|--------------|--------|-----------------------------|------|----|--------|
| C.....1 |         | 59.05.1221   | 220 pF | 1 %                         | 630V | PP |        |
| C.....2 |         | 59.05.1221   | 220 pF | 1 %                         | 630V | PP |        |
| C.....3 |         | 59.05.1221   | 220 pF | 1 %                         | 630V | PP |        |
| C.....4 |         | 59.05.1221   | 220 pF | 1 %                         | 630V | PP |        |
| L.....1 |         | 62.01.0115   |        | Interference Coil, Note 1   |      |    | Ph     |
| L.....2 |         | 62.01.0115   |        | Interference Coil, Note 1   |      |    | Ph     |
| L.....3 |         | 62.01.0115   |        | Interference Coil, Note 1   |      |    | Ph     |
| L.....4 |         | 62.01.0115   |        | Interference Coil, Note 1   |      |    | Ph     |
| MP....1 |         | 20.99.0103   | 2 pos  | Screw D 2.2 x 5             |      |    |        |
| MP....2 |         | 54.01.0280   | 2 pos  | 4-Pole CIS-Case             |      |    | AMP    |
| MP....3 |         | 1.727.240.01 | 1 pos  | Text Label 'GR41 EL07'      |      |    | ST     |
| MP....4 |         | 1.727.240.02 | 1 pos  | Text Label 'GR42 EL07'      |      |    | ST     |
| MP....5 |         | 1.727.240.93 | 2 pos  | Wiring List                 |      |    | ST     |
| MP....6 |         | 1.727.731.10 | 1 pos  | W. Label                    |      |    | ST     |
| MP....7 |         | 1.727.731.11 | 1 pos  | OUTPUT CONNECTOR PCB        |      |    | ST     |
| P.....1 |         | 54.21.2001   |        | XLR, Male                   |      |    | Neu    |
| P.....2 |         | 54.21.2001   |        | XLR, Male                   |      |    | Neu    |
| W.....1 |         | 1.010.323.64 |        | Wire Bridge                 |      |    |        |
| W.....2 |         | 1.010.323.64 |        | Wire Bridge                 |      |    |        |
| W.....3 |         | 1.010.323.64 |        | Wire Bridge                 |      |    |        |
| W.....4 |         | 1.010.323.64 |        | Wire Bridge                 |      |    |        |

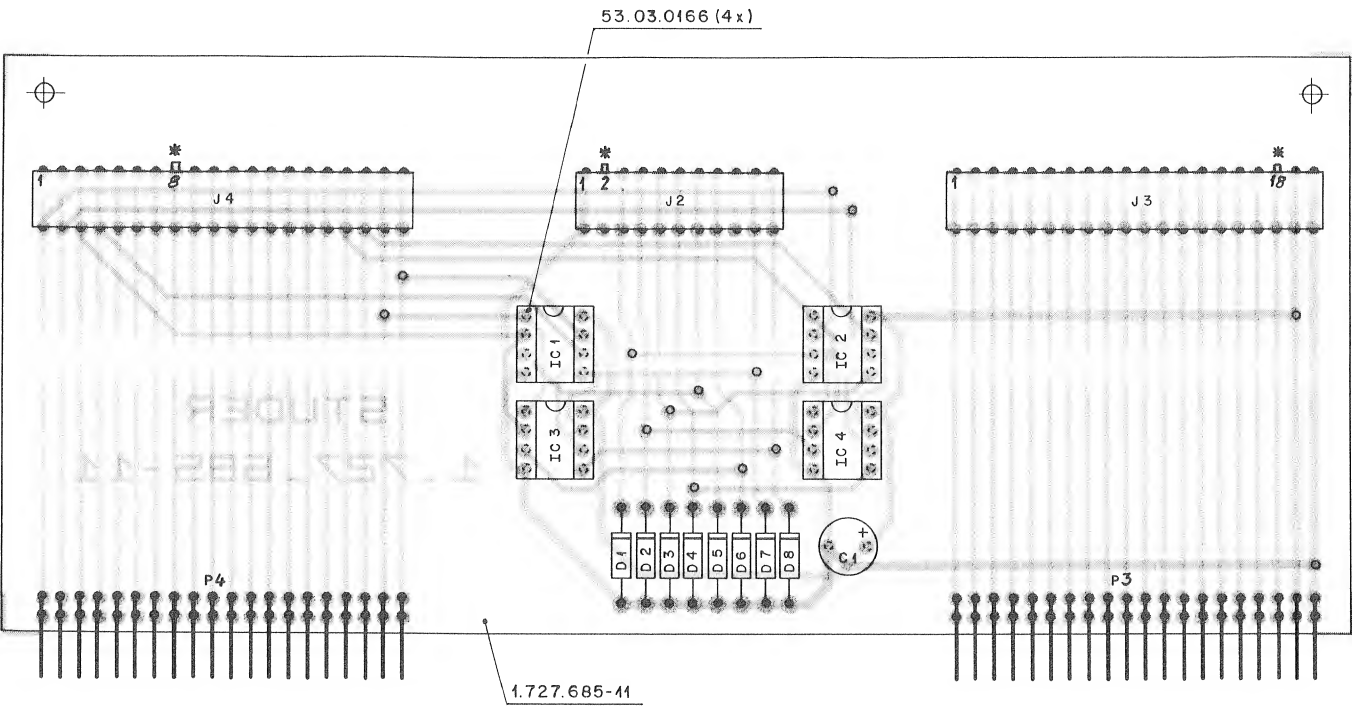
Note 1: Philips 4312 020 36700  
PP= Polypropylen  
MANUFACTURER: AMP= AMP, Neu= Neutrik, Ph= Philips, ST= Studer  
ORIG 89/03/06  
S T U D E R (OO) 89/03/06 DS OUTPUT CONNECTOR PL 1.727.731.00 PAGE 1

## NRS CONTROL BOARD 1.727.685.00



|                          |               |  |  |                  |
|--------------------------|---------------|--|--|------------------|
| © 13.01.89 DS            | ① 14.11.90 DS |  |  |                  |
| A 807-2 / A 807-4 GRP 45 |               |  |  | PAGE 1 OF 1      |
| STUDER NRS CONTROL BOARD |               |  |  | SCH 1.727.685-00 |

NRS CONTROL BOARD 1.727.685.00

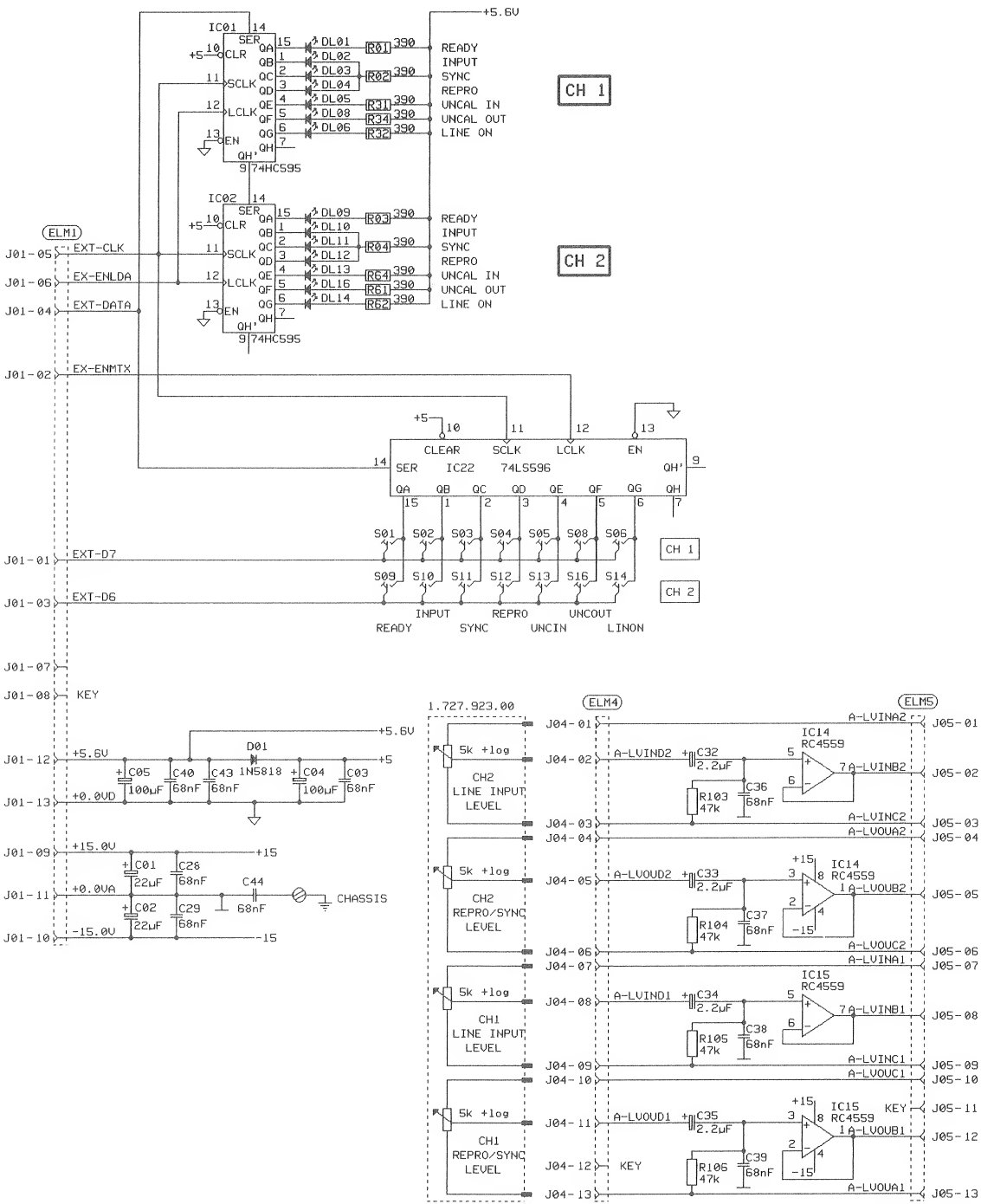


| IND.    | POS.NO.      | PART NO. | VALUE                             | SPECIFICATIONS / EQUIVALENT |        | MANUF. |
|---------|--------------|----------|-----------------------------------|-----------------------------|--------|--------|
| C....1  | 59.22.5470   | 47 uF    | -20% 25V EL                       |                             |        |        |
| D....1  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| D....2  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| D....3  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| D....4  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| D....5  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| D....6  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| D....7  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| D....8  | 50.04.1506   | 30 V Z   | BZX61C30, BZV85C30, ZY30, 1N4751A | ITT,Mot,Ph                  |        |        |
| IC....1 | 50.05.0204   | SN75464P | Dual NOR-Driver o.c.              |                             | NSC,TI |        |
| IC....2 | 50.05.0204   | SN75464P | Dual NOR-Driver o.c.              |                             | NSC,TI |        |
| IC....3 | 50.05.0203   | SN75463P | Dual OR-Driver o.c.               |                             | NSC,TI |        |
| IC....4 | 50.05.0203   | SN75463P | Dual OR-Driver o.c.               |                             | NSC,TI |        |
| J....2  | 54.01.0308   | 11-Pole  | CIS Socket Strip                  |                             | AMP    |        |
| J....3  | 54.01.0248   | 20-Pole  | CIS Socket Strip                  |                             | AMP    |        |
| J....4  | 54.01.0248   | 20-Pole  | CIS Socket Strip                  |                             | AMP    |        |
| NP....1 | 1.727.685.10 | 1 pce    | No. Label                         |                             |        |        |
| NP....2 | 1.727.685.11 | 1 pce    | NRS Control PCB                   |                             |        |        |
| P....3  | 54.01.0261   | 20-Pole  | CIS Pin Strip                     |                             | AMP    |        |
| P....4  | 54.01.0261   | 20-Pole  | CIS Pin Strip                     |                             | AMP    |        |
| XIC...1 | 53.03.0166   | 8-Pole   | IC-Socket                         |                             |        |        |
| XIC...2 | 53.03.0166   | 8-Pole   | IC-Socket                         |                             |        |        |
| XIC...3 | 53.03.0166   | 8-Pole   | IC-Socket                         |                             |        |        |
| XIC...4 | 53.03.0166   | 8-Pole   | IC-Socket                         |                             |        |        |

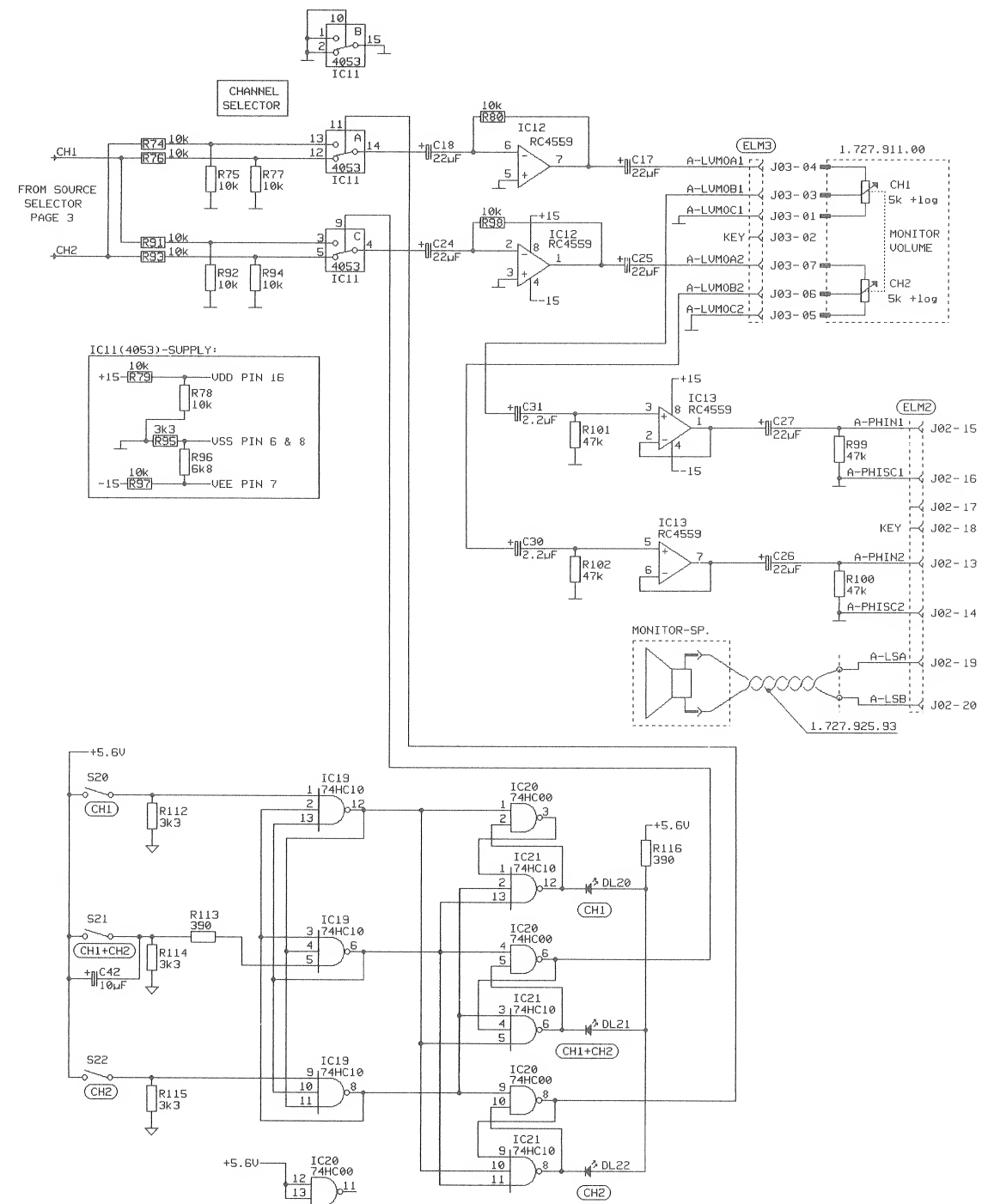
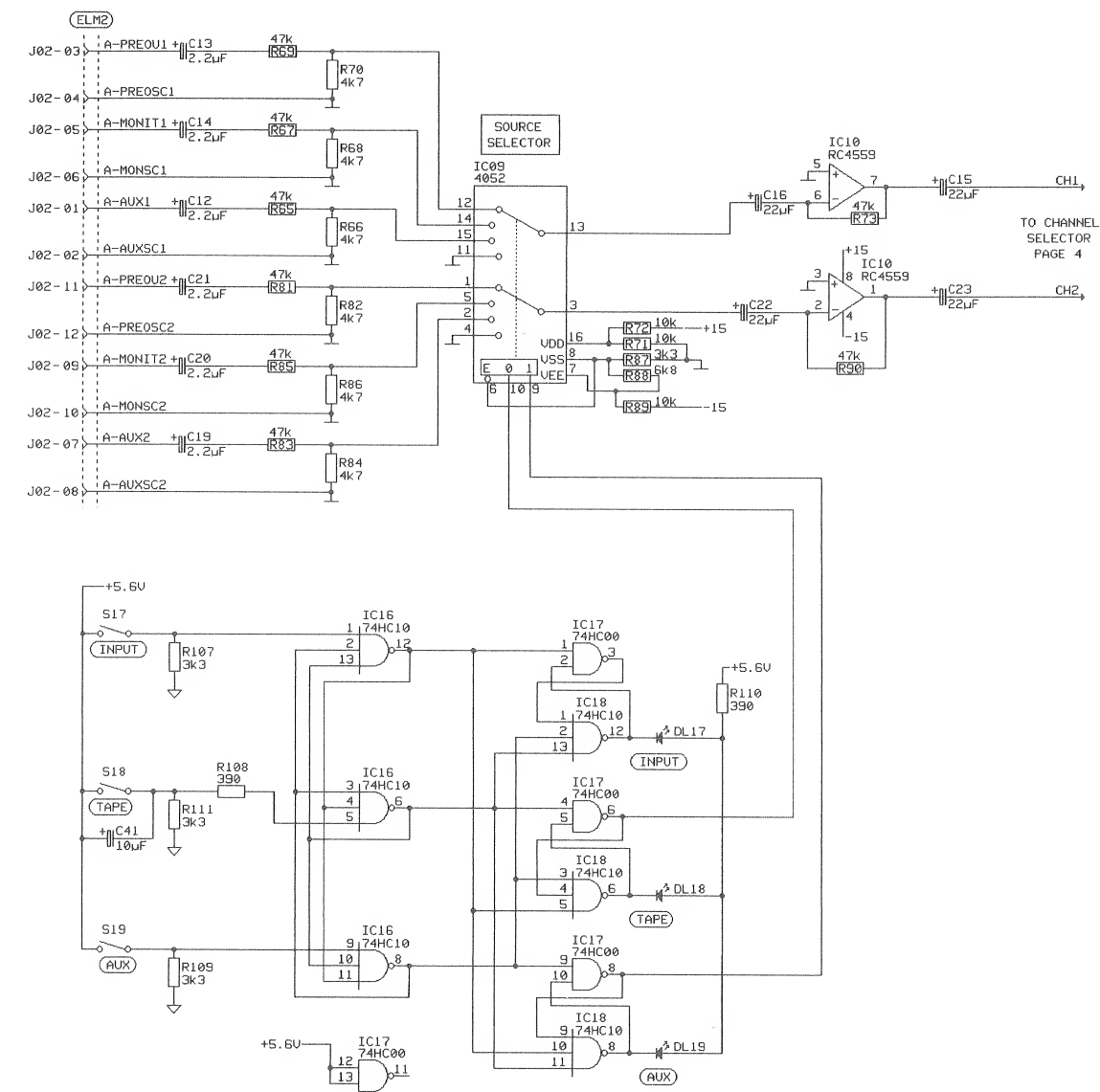
MANUFACTURER: ITT=Intermetall, Mot=Motorola, TI=Texas Instruments  
NSC=National Semiconductor Corp., Ph=Philips,  
ORIG 88/09/08  
S T U D E R (00) 88/09/08 DS NRS CONTROL BOARD 4CH PL 1.727.685.00 PAGE 1



VU-PANEL BOARD (2CH) 1.727.928.00



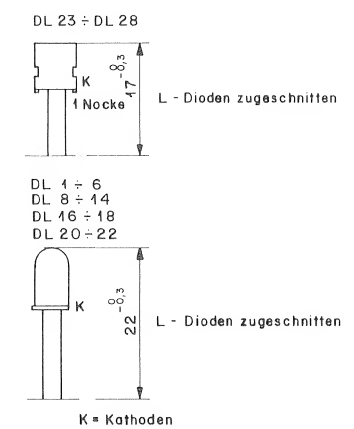
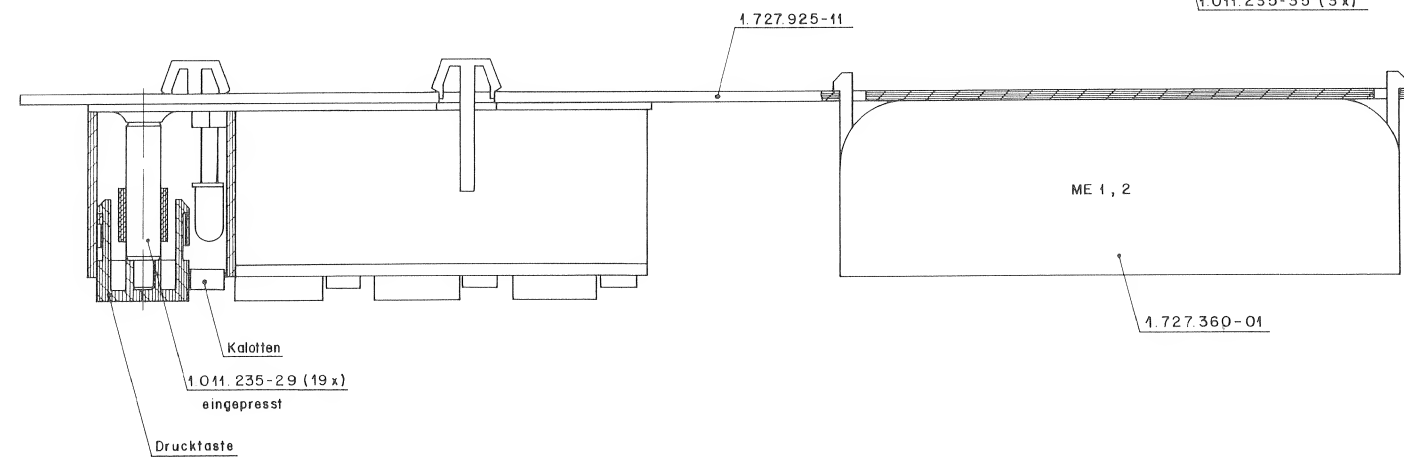
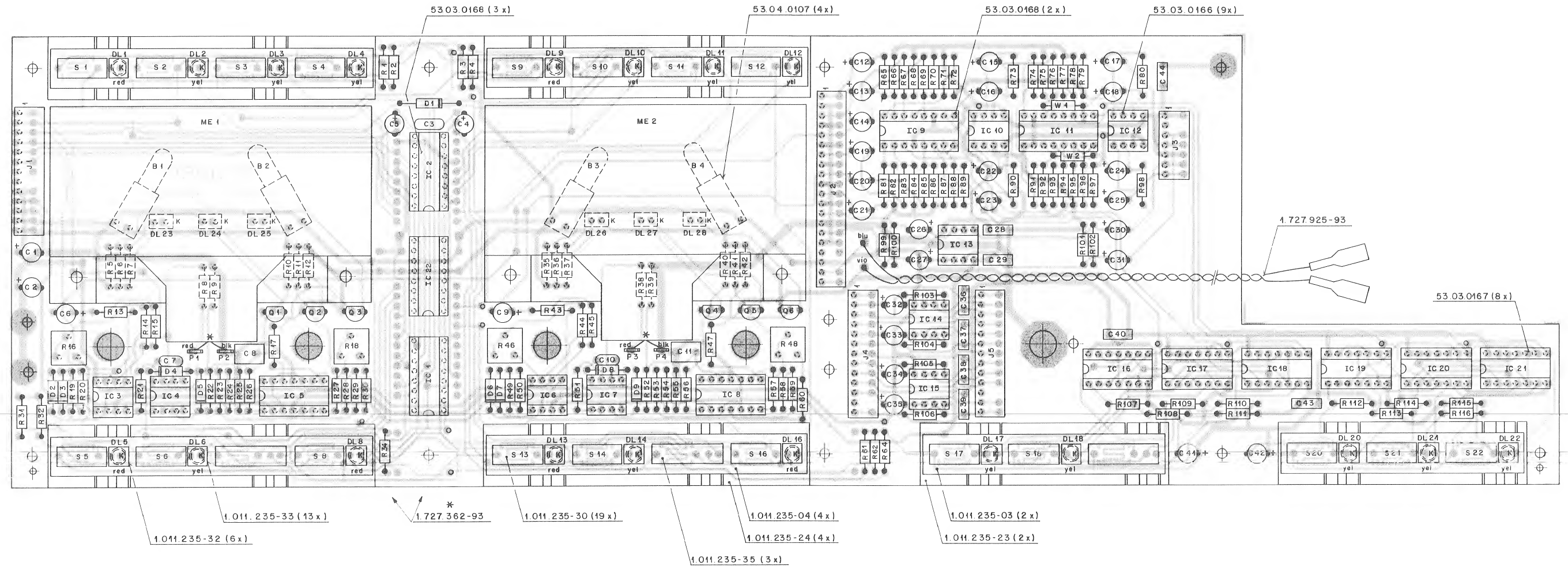
VU-PANEL BOARD (2CH) 1.727.928.00



|               |                    |               |              |             |
|---------------|--------------------|---------------|--------------|-------------|
| © 18.07.89 DS | ① 05.03.90 DS      | ② 15.11.90 DS | ○            | ○           |
|               | A 807 VUK GRP 92   |               |              | PAGE 3 OF 4 |
| STUDER        | VU-PANEL BOARD 2CH | SC            | 1.727.928-00 |             |

|               |                    |               |              |             |
|---------------|--------------------|---------------|--------------|-------------|
| © 18.07.89 DS | ① 05.03.90 DS      | ② 15.11.90 DS | ○            | ○           |
|               | A 807 VUK GRP 92   |               |              | PAGE 4 OF 4 |
| STUDER        | VU-PANEL BOARD 2CH | SC            | 1.727.928-00 |             |

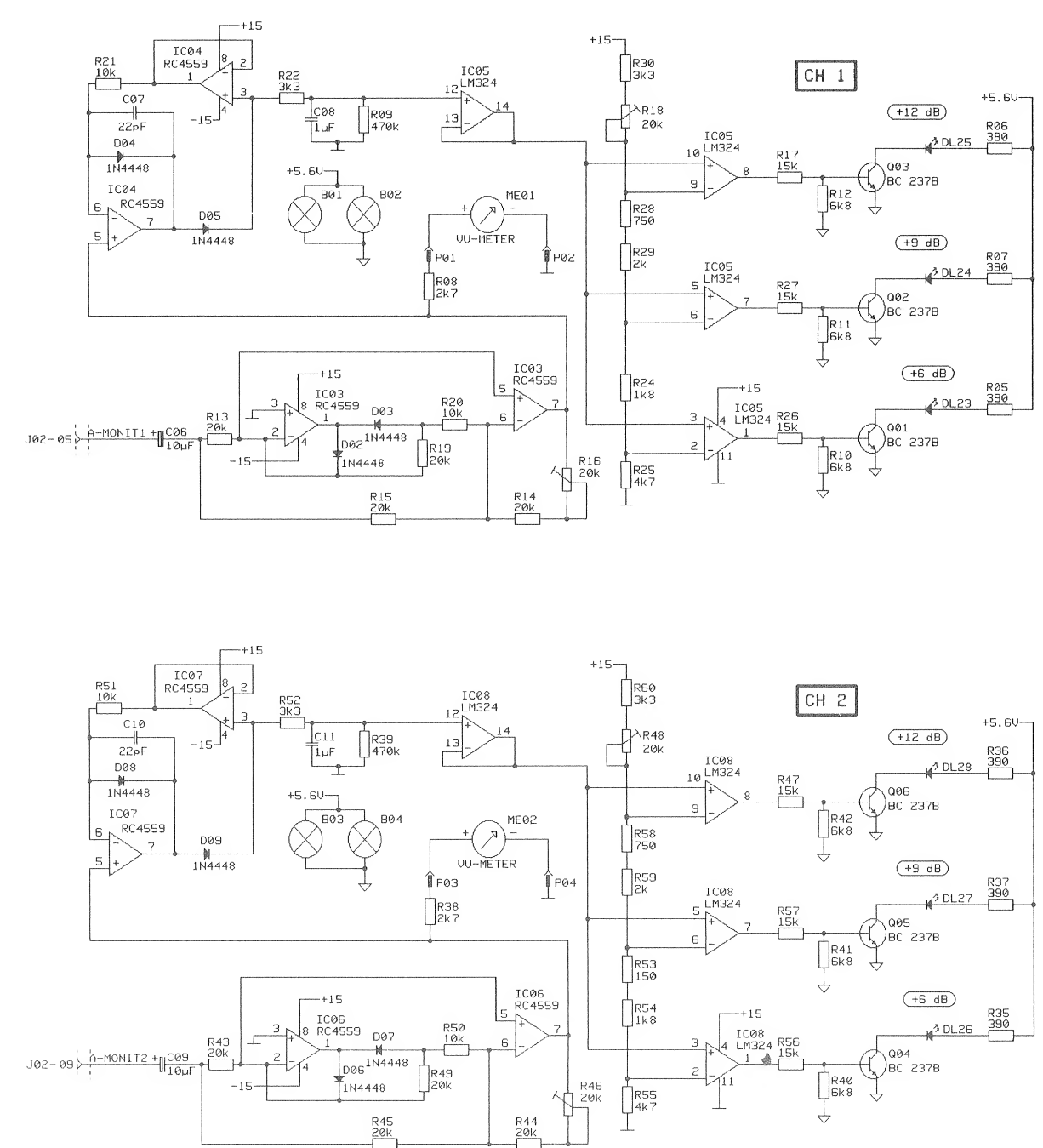
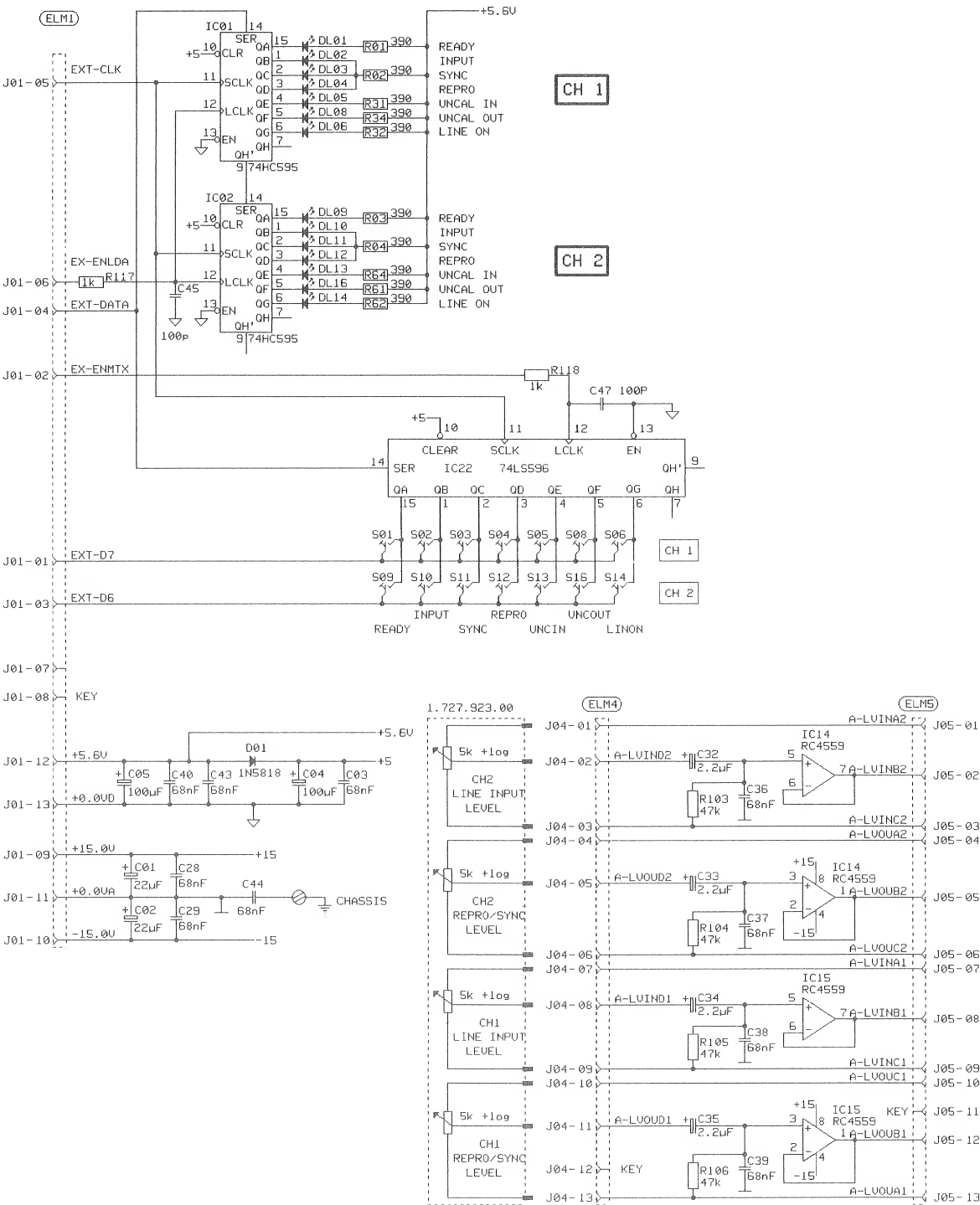
VU-PANEL BOARD (2CH) 1.727.928.00



VU-PANEL BOARD (2CH) 1.727.928.00

| POS.NO.  | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF.                      | IND.     | POS.NO.  | PART NO.   | VALUE                      | SPECIFICATIONS / EQUIVALENT | MANUF.                      | IND.     | POS.NO.  | PART NO. | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF.                      |        |
|--|------------|----------|-----------------------------|-----------------------------|----------|--|------------|----------------------------|-----------------------------|-----------------------------|----------|--|----------|---------------|-----------------------------|-----------------------------|--------|
| B.....1  | 51.02.0144 | 6 V      | 0.03 A                      | Bulb                        |          | J.....2  | 54.01.0237 | 20-pole                    | CIS Socket Strip            | AMP                         | R....72  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| B.....2  | 51.02.0144 | 6 V      | 0.03 A                      | Bulb                        |          | J.....3  | 54.01.0263 | 7-pole                     | CIS Socket Strip            | AMP                         | R....73  | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| B.....3  | 51.02.0144 | 6 V      | 0.03 A                      | Bulb                        |          | J.....4  | 54.01.0299 | 13-pole                    | CIS Socket Strip            | AMP                         | R....74  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| B.....4  | 51.02.0144 | 6 V      | 0.03 A                      | Bulb                        |          | J.....5  | 54.01.0299 | 13-pole                    | CIS Socket Strip            | AMP                         | R....75  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....1  | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | ME....1  | 1.727.360.01   |            |                            | VU Meter                    | ST                          | R....76  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....2  | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | ME....2  | 1.727.360.01   |            |                            | VU Meter                    | ST                          | R....77  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....3  | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | MP....1  | 43.01.0108   | 1 pcs      | ESE Warning Label          |                             |                             | R....78  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....4  | 59.22.3101 | 100 uF   | -20%                        | 10 V EL                     | MP....2  | 53.03.0221   | 26 pcs     | 2-pole LED Socket          |                             |                             | R....79  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....5  | 59.22.3101 | 100 uF   | -20%                        | 10 V EL                     | MP....3  | 1.011.235.03   | 2 pcs      | Push button case 3*        | ST                          |                             | R....80  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....6  | 59.22.6100 | 10 uF    | -20%                        | 25 V EL                     | MP....4  | 1.011.235.04   | 4 pcs      | Push button case 4*        | ST                          |                             | R....81  | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....7  | 59.34.2220 | 22 pF    | 10%                         | 50 V CER                    | MP....5  | 1.011.235.23   | 2 pcs      | Conductive rubber 3*       | ST                          |                             | R....82  | 57.11.3472   | 4.7 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....8  | 59.06.0105 | 1 uF     | 10%                         | 50 V PETP                   | MP....6  | 1.011.235.24   | 4 pcs      | Conductive rubber 4*       | ST                          |                             | R....83  | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....9  | 59.22.6100 | 10 uF    | -20%                        | 25 V EL                     | MP....7  | 1.011.235.29   | 19 pcs     | Bolt                       | ST                          |                             | R....84  | 57.11.3472   | 4.7 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....10   | 59.34.2220 | 22 pF    | 10%                         | 50 V CER                    | MP....8  | 1.011.235.30   | 19 pcs     | Push button 14*5           | ST                          |                             | R....85  | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....11   | 59.06.0105 | 1 uF     | 10%                         | 50 V PETP                   | MP....9  | 1.011.235.32   | 6 pcs      | Calotte red                | ST                          |                             | R....86  | 57.11.3472   | 4.7 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....12   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | MP....10 | 1.011.235.33   | 13 pcs     | Calotte yel                | ST                          |                             | R....87  | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....13   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | MP....11 | 1.011.235.35   | 3 pcs      | Dummy push button 19*5     | ST                          |                             | R....88  | 57.11.3682   | 6.8 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....14   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | MP....12 | 1.727.362.93   | 2 pcs      | Wiring List VU-Meter       | ST                          |                             | R....89  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....15   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | MP....13 | 1.727.928.10   | 1 pcs      | No. Label                  | ST                          |                             | R....90  | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....16   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | MP....14 | 1.727.928.11   | 1 pcs      | VU PANEL PCB               | ST                          |                             | R....91  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....17   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | MP....15 | 1.727.925.93   | 1 pcs      | Wiring List VU-Panel Board | ST                          |                             | R....92  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....18   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | P.....1  | 54.02.0320   |            | Plug 2.8*0.8               | AMP                         |                             | R....93  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....19   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | P.....2  | 54.02.0320   |            | Plug 2.8*0.8               | AMP                         |                             | R....94  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....20   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | P.....3  | 54.02.0320   |            | Plug 2.8*0.8               | AMP                         |                             | R....95  | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....21   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | P.....4  | 54.02.0320   |            | Plug 2.8*0.8               | AMP                         |                             | R....96  | 57.11.3682   | 6.8 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....22   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | Q.....1  | 50.03.0436   | BC237B     | BC547B, BC550B             | NPN                         |                             | R....97  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....23   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | Q.....2  | 50.03.0436   | BC237B     | BC547B, BC550B             | NPN                         |                             | R....98  | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....24   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | Q.....3  | 50.03.0436   | BC237B     | BC547B, BC550B             | NPN                         |                             | R....99  | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....25   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | Q.....4  | 50.03.0436   | BC237B     | BC547B, BC550B             | NPN                         |                             | R....100 | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....26   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | Q.....5  | 50.03.0436   | BC237B     | BC547B, BC550B             | NPN                         |                             | R....101 | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....27   | 59.22.5220 | 22 uF    | -20%                        | 25 V EL                     | Q.....6  | 50.03.0436   | BC237B     | BC547B, BC550B             | NPN                         |                             | R....102 | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....28   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   |          |  |            |                            |                             |                             | R....103 | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....29   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   |          |  |            |                            |                             |                             | R....104 | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....30   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     |          |  |            |                            |                             |                             | R....105 | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....31   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     |          |  |            |                            |                             |                             | R....106 | 57.11.3473   | 47 kOhm  | 1%, 0.25W, MF |                             |                             |        |
| C.....32   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     |          |  |            |                            |                             |                             | R....107 | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
|  |            |          |                             |                             |          |  |            |                            |                             |                             | R....108 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                             |                             |        |
| S T U D E R (01) 90/01/11 DS VU PANEL BOARD 2CH PL 1.727.928.00 PAGE 1 |            |          |                             |                             |          | S T U D E R (01) 90/01/11 DS VU PANEL BOARD 2CH PL 1.727.928.00 PAGE 4 |            |                            |                             |                             |          | S T U D E R (01) 90/01/11 DS VU PANEL BOARD 2CH PL 1.727.928.00 PAGE 7 |          |               |                             |                             |        |
| IND.   | POS.NO.    | PART NO. | VALUE                       | SPECIFICATIONS / EQUIVALENT | MANUF.   | IND.   | POS.NO.    | PART NO.                   | VALUE                       | SPECIFICATIONS / EQUIVALENT | MANUF.   | IND.   | POS.NO.  | PART NO.      | VALUE                       | SPECIFICATIONS / EQUIVALENT | MANUF. |
| C.....33   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | R.....2  | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF              |                             |                             | R....109 | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....34   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | R.....3  | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF              |                             |                             | R....110 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                             |                             |        |
| C.....35   | 59.22.8229 | 2.2 uF   | -20%                        | 25 V EL                     | R.....4  | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF              |                             |                             | R....111 | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....36   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | R.....5  | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF              |                             |                             | R....112 | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....37   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | R.....6  | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF              |                             |                             | R....113 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                             |                             |        |
| C.....38   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | R.....7  | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF              |                             |                             | R....114 | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....39   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | R.....8  | 57.11.3272   | 2.7 kOhm   | 1%, 0.25W, MF              |                             |                             | R....115 | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF |                             |                             |        |
| C.....40   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | R.....9  | 57.11.3474   | 470 kOhm   | 1%, 0.25W, MF              |                             |                             | R....116 | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF |                             |                             |        |
| C.....41   | 59.22.6100 | 10 uF    | -20%                        | 25 V EL                     | R....10  | 57.11.3682   | 6.8 kOhm   | 1%, 0.25W, MF              |                             |                             |          |  |          |               |                             |                             |        |
| C.....42   | 59.22.6100 | 10 uF    | -20%                        | 25 V EL                     | R....11  | 57.11.3682   | 6.8 kOhm   | 1%, 0.25W, MF              |                             |                             | XB....1  | 53.04.0107   |          | Bulb Socket   |                             |                             |        |
| C.....43   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | R....12  | 57.11.3682   | 6.8 kOhm   | 1%, 0.25W, MF              |                             |                             | XB....2  | 53.04.0107   |          | Bulb Socket   |                             |                             |        |
| C.....44   | 59.06.0683 | 68 nF    | 10%                         | 50 V PETP                   | R....13  | 57.11.3203   | 20 kOhm    | 1%, 0.25W, MF              |                             |                             | XB....3  | 53.04.0107   |          | Bulb Socket   |                             |                             |        |
| D.....1  | 50.04.0512 | 1N5818   | 30 V                        | Schottky                    | (001)    | R....14  | 57.11.3203 | 20 kOhm                    | 1%, 0.25W, MF               |                             | XB....4  | 53.04.0107   |          | Bulb Socket   |                             |                             |        |
| D.....2  | 50.04.0125 | 1N4448   | 50 V                        | Si                          | (01)     | R....15  | 57.11.3822 | 8.2 kOhm                   | 1%, 0.25W, MF               |                             |          |  |          |               |                             |                             |        |
| D.....3  | 50.04.0125 | 1N4448   | 50                          |                             |          |  |            |                            |                             |                             |          |  |          |               |                             |                             |        |

VU-PANEL BOARD (2CH) 1.727.928.82

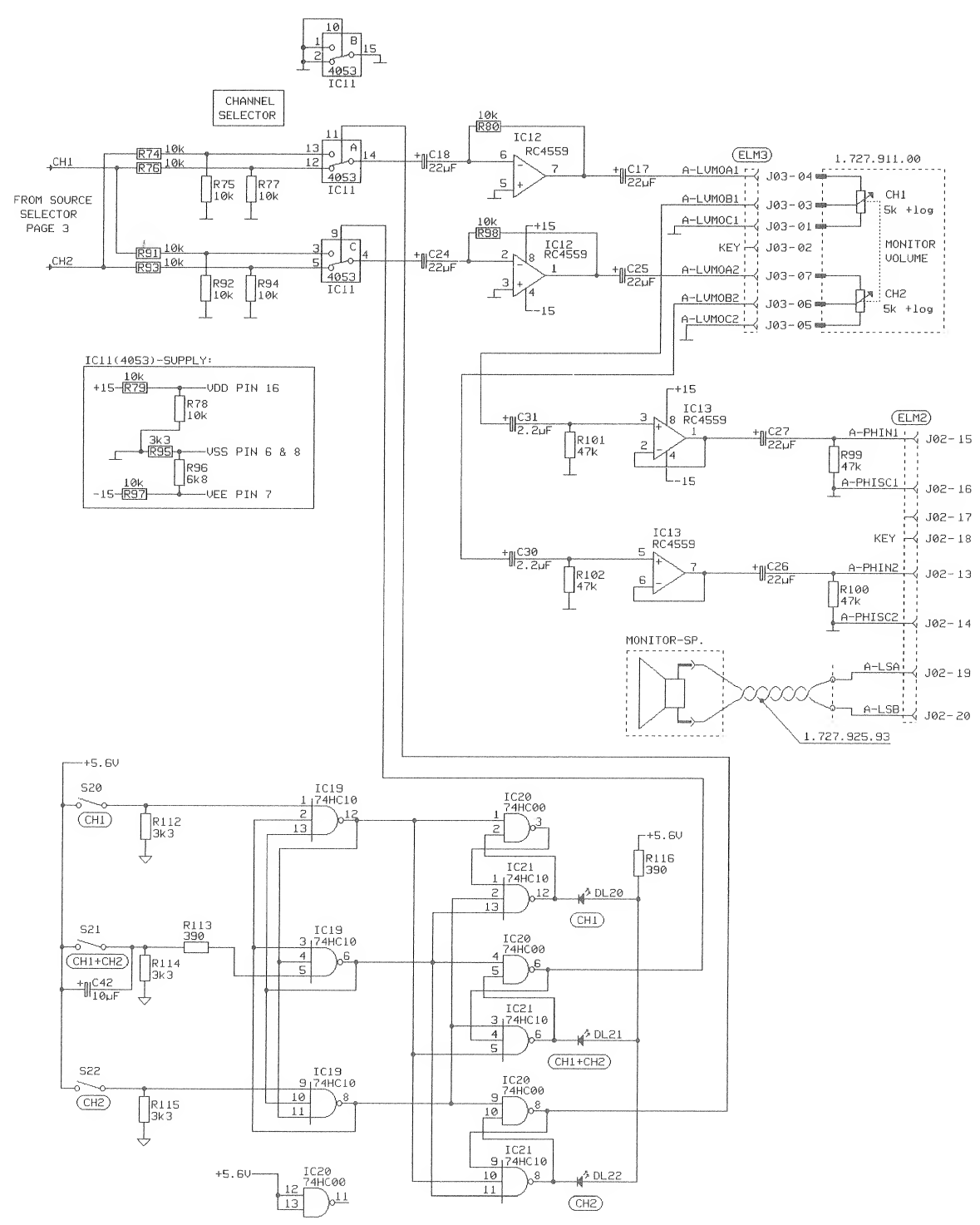
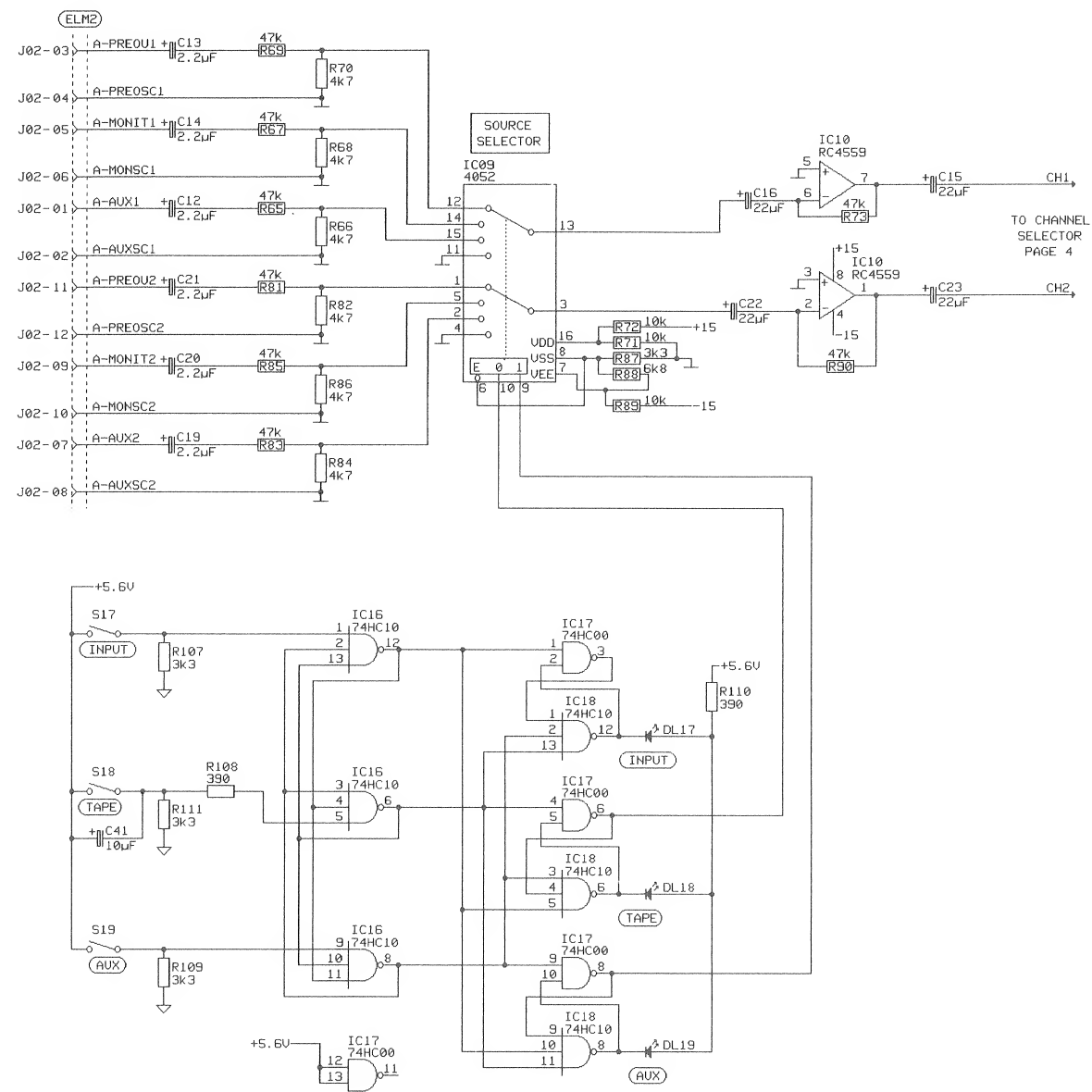


|                |                    |    |              |             |
|----------------|--------------------|----|--------------|-------------|
| ⑩ 12.08.91 Wth | ①                  | ②  | ○            | ○           |
|                | A 807 VUK GRP 92   |    |              | PAGE 1 OF 4 |
| STUDER         | VU-PANEL BOARD 2CH | SC | 1.727.928-82 |             |

|                |                    |    |              |             |
|----------------|--------------------|----|--------------|-------------|
| ⑩ 12.08.91 Wth | ①                  | ②  | ○            | ○           |
|                | A 807 VUK GRP 92   |    |              | PAGE 2 OF 4 |
| STUDER         | VU-PANEL BOARD 2CH | SC | 1.727.928-82 |             |



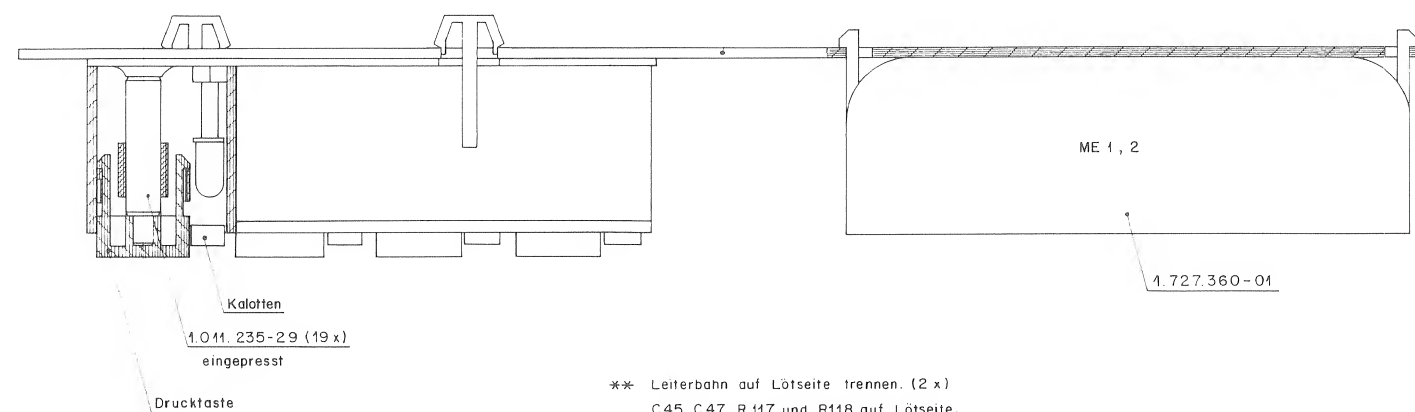
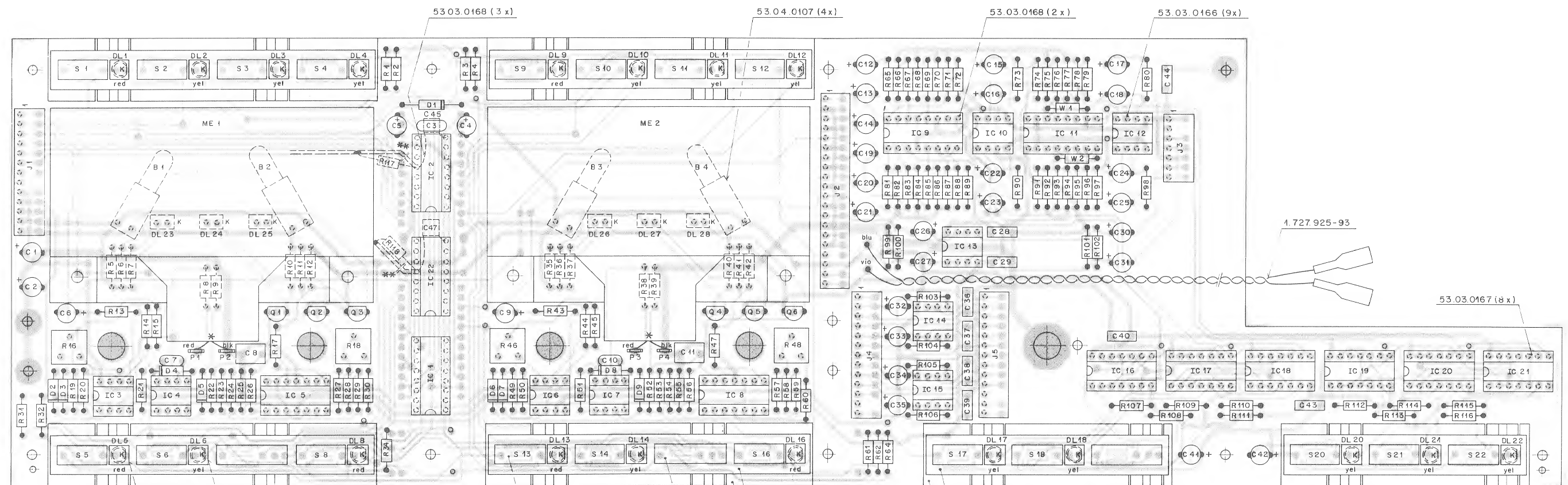
VU-PANEL BOARD (2CH) 1.727.928.82



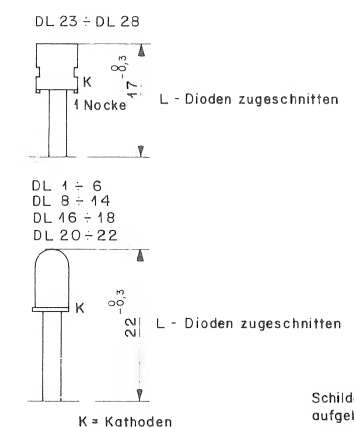
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|----------------|--------------------|----|--------------|-------------|
| ⑩ 12.08.91 Wth | ①                  | ②  | ○            | ○           |
|                | A 807 UUK GRP 92   |    |              | PAGE 3 OF 4 |
| STUDER         | VU-PANEL BOARD 2CH | SC | 1.727.928-82 |             |

|                |                    |    |              |             |
|----------------|--------------------|----|--------------|-------------|
| ⑩ 12.08.91 Wth | ①                  | ②  | ○            | ○           |
|                | A 807 UUK GRP 92   |    |              | PAGE 4 OF 4 |
| STUDER         | VU-PANEL BOARD 2CH | SC | 1.727.928-82 |             |

VU-PANEL BOARD (2CH) 1.727.928.82



\*\* Leiterbahn auf Lötseite trennen. (2 x)  
C45, C47, R117 und R118 auf Lötseite.  
Zum Löten von R117 Lötstopp entfernen.  
C45 und C47 mit Teflonschlauch 65.99.0111 isolieren.

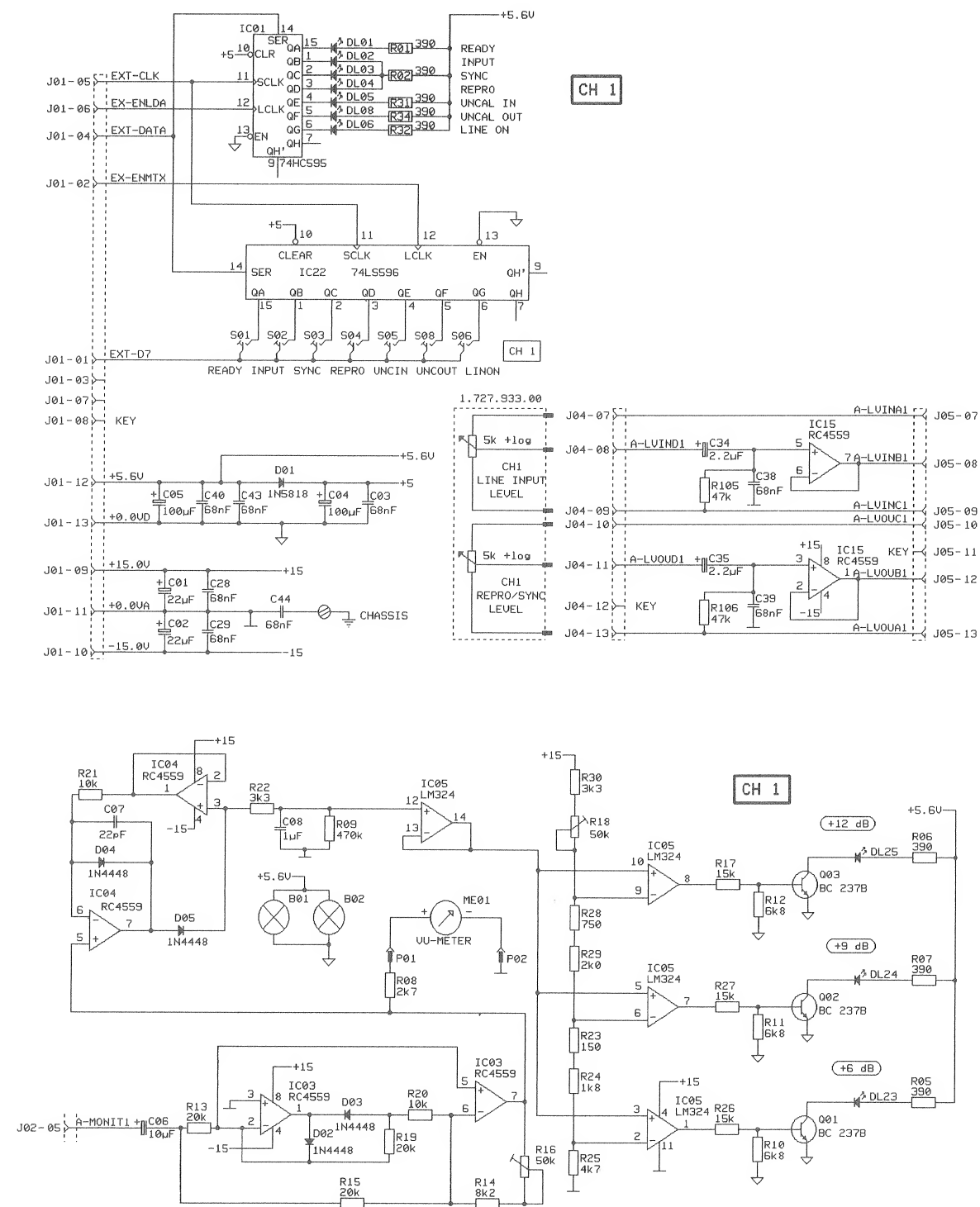


Schilder 1.727.925-10/43.01.0108  
aufgeklebt nach Fabrikationsmuster.

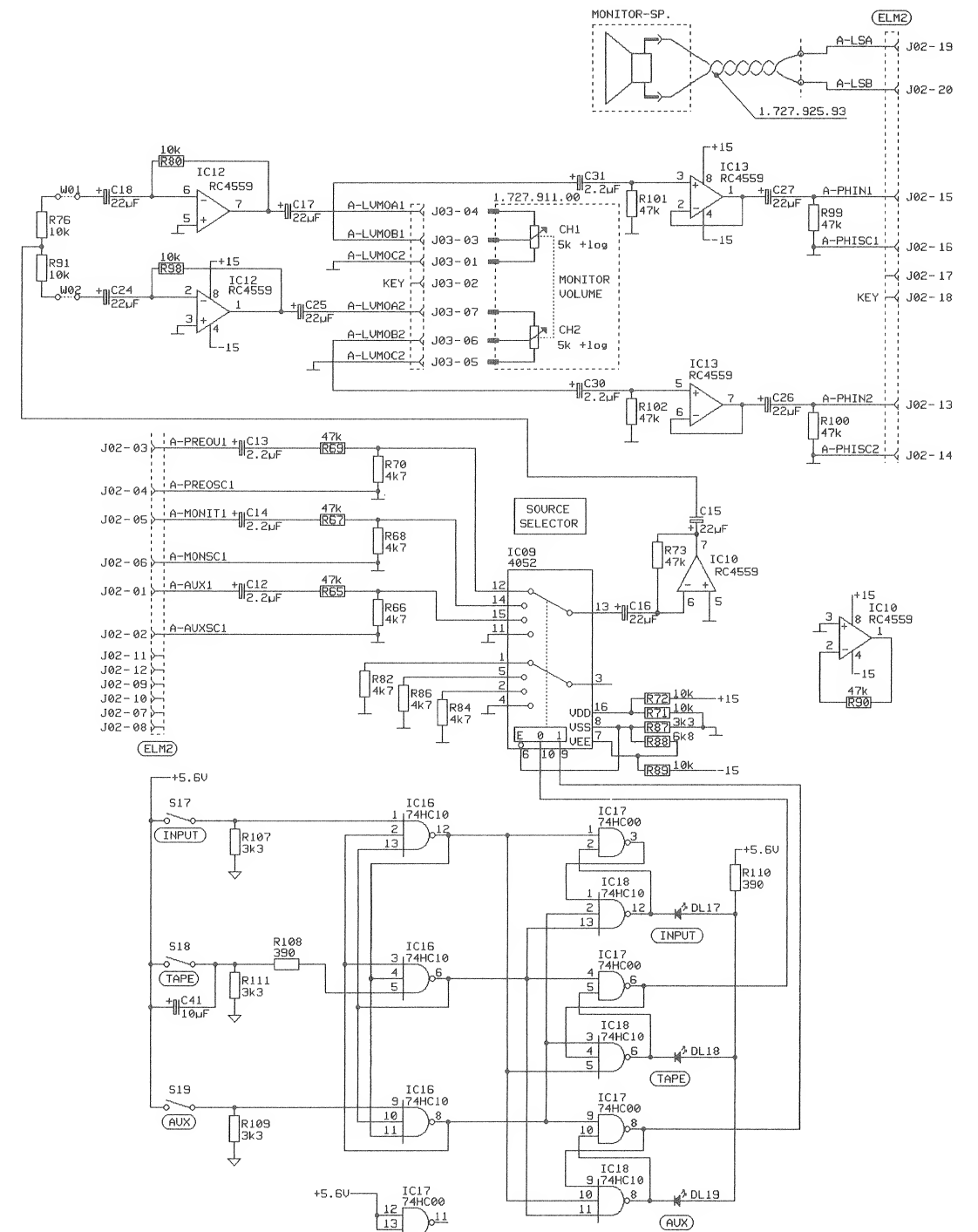
VU-PANEL BOARD (2CH) 1.727.928.82

|  | POS.NO. | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.  | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.  | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|---------|------------|--------|-----------------------------|--------|--|----------|--------------|----------|-----------------------------|--------|--|----------|------------|----------|-----------------------------|--------|
|  | B....1  | 51.02.0144 | 6 V    | 0.03 A Bulb                 |        |  | IC....21 | 50.17.1010   | 74HC10   | Triple 3-Input NAND Gate    |        |  | R....74  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | B....2  | 51.02.0144 | 6 V    | 0.03 A Bulb                 |        |  | IC....22 | 50.06.0596   | 74LS596  | 8-bit Shift Register o.c.   |        |  | R....75  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | B....3  | 51.02.0144 | 6 V    | 0.03 A Bulb                 |        |  | J....1   | 54.01.0299   | 13-pole  | CIS Socket Strip            | AMP    |  | R....76  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | B....4  | 51.02.0144 | 6 V    | 0.03 A Bulb                 |        |  | J....2   | 54.01.0237   | 20-pole  | CIS Socket Strip            | AMP    |  | R....77  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....1  | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | J....3   | 54.01.0263   | 7-pole   | CIS Socket Strip            | AMP    |  | R....78  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....2  | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | J....4   | 54.01.0299   | 13-pole  | CIS Socket Strip            | AMP    |  | R....79  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....3  | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | J....5   | 54.01.0299   | 13-pole  | CIS Socket Strip            | AMP    |  | R....80  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....4  | 59.22.3101 | 100 uF | -20% 10 V EL                |        |  | ME....1  | 1.727.360.01 |          | VU Meter                    | ST     |  | R....81  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....5  | 59.22.3101 | 100 uF | -20% 10 V EL                |        |  | ME....2  | 1.727.360.01 |          | VU Meter                    | ST     |  | R....82  | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF               |        |
|  | C....6  | 59.22.6100 | 10 uF  | -20% 25 V EL                |        |  | MP....1  | 43.01.0108   | 1 pce    | ESE Warning label           |        |  | R....83  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....7  | 59.34.2220 | 22 pF  | 10% 50 V CER                |        |  | MP....2  | 53.03.0221   | 26 pce   | 2-pole LED Socket           |        |  | R....84  | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF               |        |
|  | C....8  | 59.06.0105 | 1 uF   | 10% 50 V PETP               |        |  | MP....3  | 1.011.235.03 | 2 pce    | Push button case 3*         | ST     |  | R....85  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....9  | 59.22.6100 | 10 uF  | -20% 25 V EL                |        |  | MP....4  | 1.011.235.04 | 4 pce    | Push button case 4*         | ST     |  | R....86  | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF               |        |
|  | C....10 | 59.34.2220 | 22 pF  | 10% 50 V CER                |        |  | MP....5  | 1.011.235.23 | 2 pce    | Conductive rubber 3*        | ST     |  | R....87  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | C....11 | 59.06.0105 | 1 uF   | 10% 50 V PETP               |        |  | MP....6  | 1.011.235.24 | 4 pce    | Conductive rubber 4*        | ST     |  | R....88  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....12 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | MP....7  | 1.011.235.29 | 19 pce   | Push button 14*5            | ST     |  | R....89  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....13 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | MP....8  | 1.011.235.30 | 6 pce    | Calotte red                 | ST     |  | R....90  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....14 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | MP....9  | 1.011.235.32 | 6 pce    | Calotte red                 | ST     |  | R....91  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....15 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | MP....10 | 1.011.235.33 | 13 pce   | Calotte yel                 | ST     |  | R....92  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....16 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | MP....11 | 1.011.235.35 | 3 pce    | Duney push button 19*5      | ST     |  | R....93  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....17 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | MP....12 | 1.727.362.93 | 2 pce    | Wiring List VU-Meter        | ST     |  | R....94  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....18 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | MP....13 | 1.727.928.10 | 1 pce    | No. Label                   | ST     |  | R....95  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | C....19 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | MP....14 | 1.727.928.11 | 1 pce    | VU PANEL PCB                | ST     |  | R....96  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF               |        |
|  | C....20 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | MP....15 | 1.727.925.93 | 1 pce    | Wiring List VU-Panel Board  | ST     |  | R....97  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF               |        |
|  | C....21 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | P....1   | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |  | R....98  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....22 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | P....2   | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |  | R....99  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....23 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | P....3   | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |  | R....100 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....24 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | P....4   | 54.02.0320   |          | Plug 2.8*0.8                | AMP    |  | R....101 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....25 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | Q....1   | 50.03.0436   | BC237B   | BC547B, BC550B NPN          |        |  | R....102 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....26 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | Q....2   | 50.03.0436   | BC237B   | BC547B, BC550B NPN          |        |  | R....103 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....27 | 59.22.5220 | 22 uF  | -20% 25 V EL                |        |  | Q....3   | 50.03.0436   | BC237B   | BC547B, BC550B NPN          |        |  | R....104 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....28 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | Q....4   | 50.03.0436   | BC237B   | BC547B, BC550B NPN          |        |  | R....105 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....29 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  |          |              |          |                             |        |  | R....106 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF               |        |
|  | C....30 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  |          |              |          |                             |        |  | R....107 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | C....31 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  |          |              |          |                             |        |  | R....108 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | C....32 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  |          |              |          |                             |        |  | R....109 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  |         |            |        |                             |        |  |          |              |          |                             |        |  | R....110 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
| S T U D E R (00) 91/08/12 GP VU PANEL BOARD 2CH PL 1.727.928.82 PAGE 1 |         |            |        |                             |        | S T U D E R (00) 91/08/12 GP VU PANEL BOARD 2CH PL 1.727.928.82 PAGE 4 |          |              |          |                             |        | S T U D E R (00) 91/08/12 GP VU PANEL BOARD 2CH PL 1.727.928.82 PAGE 7 |          |            |          |                             |        |
| IND.   | POS.NO. | PART NO.   | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.  | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.   | POS.NO.  | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|  | C....33 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | Q....5   | 50.03.0436   | BC237B   | BC547B, BC550B NPN          |        |  | R....111 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | C....34 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | Q....6   | 50.03.0436   | BC237B   | BC547B, BC550B NPN          |        |  | R....112 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | C....35 | 59.22.8229 | 2.2 uF | -20% 25 V EL                |        |  | R....1   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF               |        |  | R....113 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | C....36 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | R....2   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF               |        |  | R....114 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | C....37 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | R....3   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF               |        |  | R....115 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF               |        |
|  | C....38 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | R....4   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF               |        |  | R....116 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF               |        |
|  | C....39 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | R....5   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF               |        |  | R....117 | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF               |        |
|  | C....40 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | R....6   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF               |        |  | R....118 | 57.11.3102 | 1 kOhm   | 1%, 0.25W, MF               |        |
|  | C....41 | 59.22.6100 | 10 uF  | -20% 25 V EL                |        |  | R....7   | 57.11.3391   | 390 Ohm  | 1%, 0.25W, MF               |        |  | XB....1  | 53.04.0107 |          | Bulb Socket                 |        |
|  | C....42 | 59.22.6100 | 10 uF  | -20% 25 V EL                |        |  | R....8   | 57.11.3272   | 2.7 kOhm | 1%, 0.25W, MF               |        |  | XB....2  | 53.04.0107 |          | Bulb Socket                 |        |
|  | C....43 | 59.06.0663 | 68 nF  | 10% 50 V PETP               |        |  | R....9   | 57.11.3474   | 470 kOhm | 1%, 0.25W, MF               |        |  | XB....3  | 53.04.0107 |          |                             |        |

## VU-PANEL BOARD MONO 1.727.938.00

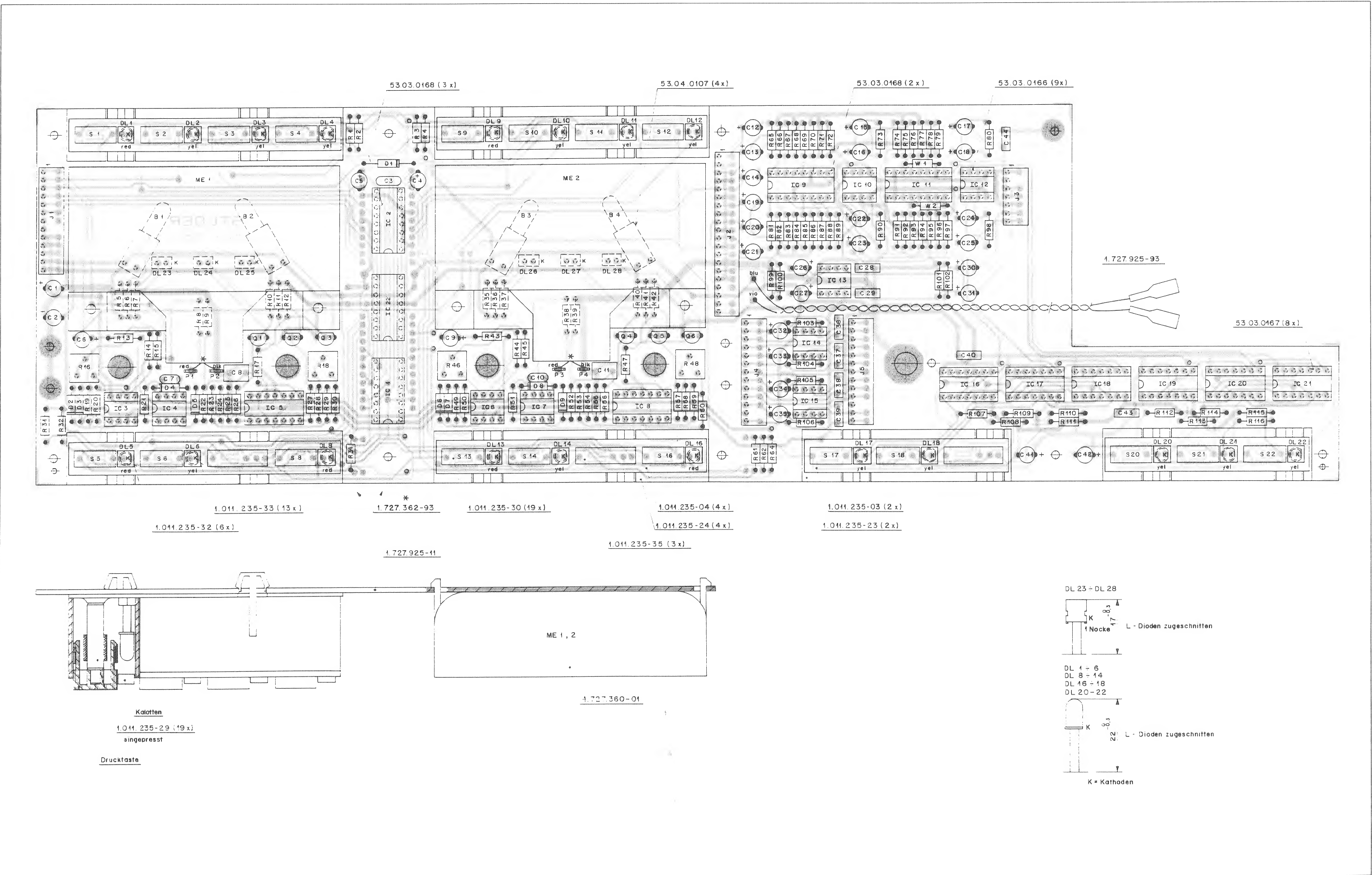


|               |                     |               |              |             |
|---------------|---------------------|---------------|--------------|-------------|
| © 12.07.89 DS | ① 05.03.90 DS       | ② 15.11.90 DS | ○            | ○           |
|               | A 807 GR 92         |               |              | PAGE 1 OF 2 |
| STUDER        | VU-PANEL BOARD MONO | SCH           | 1.727.938-00 |             |



|               |                     |               |              |             |
|---------------|---------------------|---------------|--------------|-------------|
| © 12.07.89 DS | ① 05.03.90 DS       | ② 15.11.90 DS | ○            | ○           |
|               | A 807 GR 92         |               |              | PAGE 2 OF 2 |
| STUDER        | VU-PANEL BOARD MONO | SCH           | 1.727.938-00 |             |

VU-PANEL BOARD MONO 1.727.938.00





## VU-PANEL BOARD MONO 1.727.938.00

| IND.     | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO.   | VALUE         | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|------------|----------|-----------|-----------------------------|--------|---------|------------|------------|---------------|-----------------------------|--------|
| B.....1  | 51.02.0144 | 6 V      | 0.03 A    | Lamp                        |        | (01)    | R....14    | 57.11.3822 | 8.2 kOhm      | 1%, 0.25W, MF               |        |
| B.....2  | 51.02.0144 | 6 V      | 0.03 A    | Lamp                        |        | R....15 | 57.11.3203 | 20 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....1  | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | (00)    | R....16    | 58.01.8203 | 20 kOhm       | 10%, 0.5 W, PCera           |        |
| C.....2  | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | (0x)    | R....16    | 58.01.8503 | 50 kOhm       | 10%, 0.5 W, PCera           |        |
| C.....3  | 59.06.0683 | 68 nF    | -20X 50 V | PETP                        |        | R....17 | 57.11.3153 | 15 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....4  | 59.22.3101 | 100 uF   | -20X 10 V | EL                          |        | (00)    | R....18    | 58.01.8203 | 20 kOhm       | 10%, 0.5 W, PCera           |        |
| C.....5  | 59.22.3101 | 100 uF   | -20X 10 V | EL                          |        | (01)    | R....18    | 58.01.8503 | 50 kOhm       | 10%, 0.5 W, PCera           |        |
| C.....6  | 59.22.6100 | 10 uF    | -20X 25 V | EL                          |        | R....19 | 57.11.3203 | 20 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....7  | 59.34.2220 | 22 pF    | 10X 50 V  | CER                         |        | R....20 | 57.11.3103 | 10 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....8  | 59.06.0105 | 1 uF     | 10X 50 V  | PETP                        |        | R....21 | 57.11.3103 | 10 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....12 | 59.22.8229 | 2.2 uF   | -20X 25 V | EL                          |        | R....22 | 57.11.3332 | 3.3 kOhm   | 1%, 0.25W, MF |                             |        |
| C.....13 | 59.22.8229 | 2.2 uF   | -20X 25 V | EL                          |        | R....23 | 57.11.3151 | 150 Ohm    | 1%, 0.25W, MF |                             |        |
| C.....14 | 59.22.8229 | 2.2 uF   | -20X 25 V | EL                          |        | R....24 | 57.11.3182 | 1.8 kOhm   | 1%, 0.25W, MF |                             |        |
| C.....15 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....25 | 57.11.3472 | 4.7 kOhm   | 1%, 0.25W, MF |                             |        |
| C.....16 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....26 | 57.11.3153 | 15 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....17 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....27 | 57.11.3153 | 15 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....18 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....28 | 57.11.3751 | 750 Ohm    | 1%, 0.25W, MF |                             |        |
| C.....24 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....29 | 57.11.3202 | 2 kOhm     | 1%, 0.25W, MF |                             |        |
| C.....25 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....30 | 57.11.3332 | 3.3 kOhm   | 1%, 0.25W, MF |                             |        |
| C.....26 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....31 | 57.11.3391 | 390 Ohm    | 1%, 0.25W, MF |                             |        |
| C.....27 | 59.22.5220 | 22 uF    | -20X 25 V | EL                          |        | R....32 | 57.11.3391 | 390 Ohm    | 1%, 0.25W, MF |                             |        |
| C.....28 | 59.06.0683 | 68 nF    | 10X 50 V  | PETP                        |        | R....33 | 57.11.3391 | 390 Ohm    | 1%, 0.25W, MF |                             |        |
| C.....29 | 59.06.0683 | 68 nF    | 10X 50 V  | PETP                        |        | R....65 | 57.11.3473 | 47 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....30 | 59.22.8229 | 2.2 uF   | -20X 25 V | EL                          |        | R....66 | 57.11.3472 | 4.7 kOhm   | 1%, 0.25W, MF |                             |        |
| C.....31 | 59.22.8229 | 2.2 uF   | -20X 25 V | EL                          |        | R....67 | 57.11.3473 | 47 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....34 | 59.22.8229 | 2.2 uF   | -20X 25 V | EL                          |        | R....68 | 57.11.3472 | 4.7 kOhm   | 1%, 0.25W, MF |                             |        |
| C.....35 | 59.22.8229 | 2.2 uF   | -20X 25 V | EL                          |        | R....69 | 57.11.3473 | 47 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....38 | 59.06.0683 | 68 nF    | 10X 50 V  | PETP                        |        | R....70 | 57.11.3472 | 4.7 kOhm   | 1%, 0.25W, MF |                             |        |
| C.....39 | 59.06.0683 | 68 nF    | 10X 50 V  | PETP                        |        | R....71 | 57.11.3103 | 10 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....40 | 59.06.0683 | 68 nF    | 10X 50 V  | PETP                        |        | R....72 | 57.11.3103 | 10 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....41 | 59.22.6100 | 10 uF    | -20X 25 V | EL                          |        | R....73 | 57.11.3473 | 47 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....43 | 59.06.0683 | 68 nF    | 10X 50 V  | PETP                        |        | R....76 | 57.11.3103 | 10 kOhm    | 1%, 0.25W, MF |                             |        |
| C.....44 | 59.06.0683 | 68 nF    | 10X 50 V  | PETP                        |        | R....80 | 57.11.3103 | 10 kOhm    | 1%, 0.25W, MF |                             |        |
| D.....1  | 50.04.0512 | 1N5818   | 30 V      | Schottky                    |        | R....82 | 57.11.3472 | 4.7 kOhm   | 1%, 0.25W, MF |                             |        |
| D.....2  | 50.04.0125 | 1N4448   | 50 V      | Si                          |        | R....84 | 57.11.3472 | 4.7 kOhm   | 1%, 0.25W, MF |                             |        |
|          |            |          |           |                             |        | R....86 | 57.11.3472 | 4.7 kOhm   | 1%, 0.25W, MF |                             |        |
|          |            |          |           |                             |        | R....87 | 57.11.3332 | 3.3 kOhm   | 1%, 0.25W, MF |                             |        |

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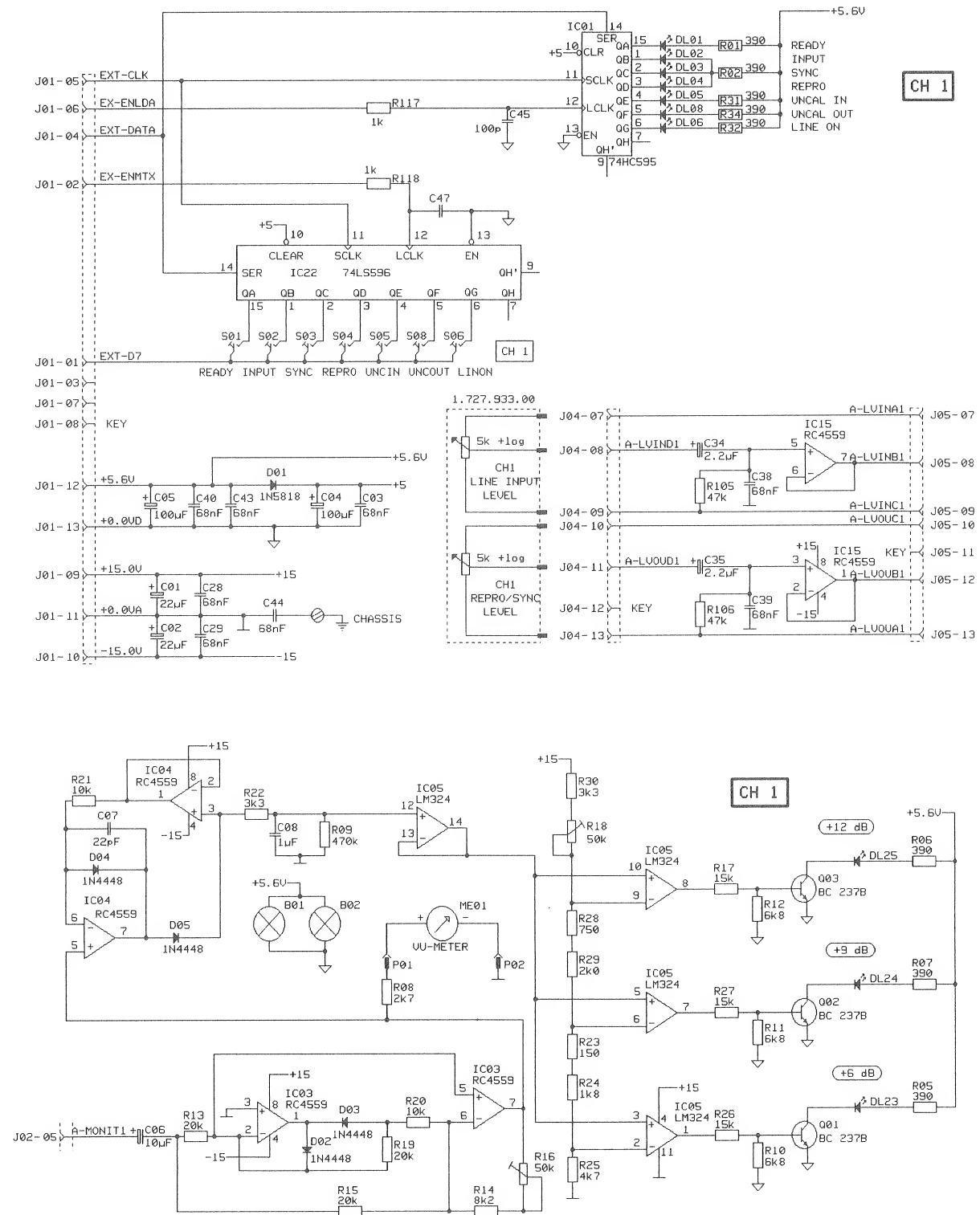
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|-----------|------------|-----------|--------------------------|-----------------------------|--------|-----------|------------|----------|---------------|-----------------------------|--------|
| D.....3   | 50.04.0125 | 1N4448    | 50 V                     | SI                          |        | R....88   | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF |                             |        |
| D.....4   | 50.04.0125 | 1N4448    | 50 V                     | SI                          |        | R....89   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF |                             |        |
| D.....5   | 50.04.0125 | 1N4448    | 50 V                     | SI                          |        | R....90   | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....1  | 50.04.2115 | MV5752    | LED red D=5 mm           |                             | GI     | R....91   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....2  | 50.04.2500 | MV5352    | LED yel D=5 mm           |                             | GI     | R....98   | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....3  | 50.04.2500 | MV5352    | LED yel D=5 mm           |                             | GI     | R....99   | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....4  | 50.04.2500 | MV5352    | LED yel D=5 mm           |                             | GI     | R....100  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....5  | 50.04.2115 | MV5752    | LED red D=5 mm           |                             | GI     | R....101  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....6  | 50.04.2500 | MV5352    | LED yel D=5 mm           |                             | GI     | R....102  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....8  | 50.04.2115 | MV5752    | LED red D=5 mm           |                             | GI     | R....105  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....17 | 50.04.2500 | MV5352    | LED yel D=5 mm           |                             | GI     | R....106  | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF |                             |        |
| DL.....18 | 50.04.2500 | MV5352    | LED yel D=5 mm           |                             | GI     | R....107  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF |                             |        |
| DL.....19 | 50.04.2119 | MV57124   | LED red 6.35x3.81        |                             | GI     | R....108  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF |                             |        |
| DL.....23 | 50.04.2119 | MV57124   | LED red 6.35x3.81        |                             | GI     | R....109  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF |                             |        |
| DL.....24 | 50.04.2119 | MV57124   | LED red 6.35x3.81        |                             | GI     | R....110  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF |                             |        |
| DL.....25 | 50.04.2119 | MV57124   | LED red 6.35x3.81        |                             | GI     | R....111  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF |                             |        |
| IC.....1  | 50.17.1595 | 74 HC 595 | 8-bit Shift Register     | tri                         |        | W....1    | 57.11.3000 |          | Bridge        |                             |        |
| IC.....3  | 50.09.0107 | RC 4559   | Dual Op. Amp.            |                             | Ra     | W....2    | 57.11.3000 |          | Bridge        |                             |        |
| IC.....4  | 50.09.0107 | RC 4559   | Dual Op. Amp.            |                             | Ra     | XB....1   | 53.04.0107 |          | Bulb Socket   |                             |        |
| IC.....5  | 50.05.0199 | LM 324    | Quad Op. Amp.            |                             | NS/Mot | XB....2   | 53.04.0107 |          | Bulb Socket   |                             |        |
| IC.....9  | 50.07.0024 | HC 14052  | CMOS Analog Switch       |                             | Mot    |           |            |          |               |                             |        |
| IC.....10 | 50.09.0107 | RC 4559   | Dual Op. Amp.            |                             | Ra     | XIC....1  | 53.03.0168 | 16-Pole  | IC Socket     |                             |        |
| IC.....12 | 50.09.0107 | RC 4559   | Dual Op. Amp.            |                             | Ra     | XIC....3  | 53.03.0166 | 8-Pole   | IC Socket     |                             |        |
| IC.....13 | 50.09.0107 | RC 4559   | Dual Op. Amp.            |                             | Ra     | XIC....4  | 53.03.0166 | 8-Pole   | IC Socket     |                             |        |
| IC.....15 | 50.09.0107 | RC 4559   | Dual Op. Amp.            |                             | Ra     | XIC....5  | 53.03.0167 | 14-Pole  | IC Socket     |                             |        |
| IC.....16 | 50.17.1010 | 74 HC 00  | Triple 3-Input NAND Gate |                             |        | XIC....9  | 53.03.0168 | 16-Pole  | IC Socket     |                             |        |
| IC.....17 | 50.17.1000 | 74 HC 00  | Quad 2-Input NAND Gate   |                             |        | XIC....10 | 53.03.0166 | 8-Pole   | IC Socket     |                             |        |
| IC.....18 | 50.17.1010 | 74 HC 10  | Triple 3-Input NAND Gate |                             |        | XIC....12 | 53.03.0166 | 8-Pole   | IC Socket     |                             |        |
| IC.....22 | 50.06.0596 | 74 LS 596 | 8-bit Shift Register     | o.c                         |        | XIC....13 | 53.03.0166 | 8-Pole   | IC Socket     |                             |        |
| J.....1   | 54.01.0299 | 13-Pole   | CIS Socket Strip         |                             | AMP    | XIC....15 | 53.03.0166 | 8-Pole   | IC Socket     |                             |        |
| J.....2   | 54.01.0237 | 20-Pole   | CIS Socket Strip         |                             | AMP    | XIC....16 | 53.03.0167 | 14-Pole  | IC Socket     |                             |        |
| J.....3   | 54.01.0263 | 7-Pole    | CIS Socket Strip         |                             | AMP    | XIC....17 | 53.03.0167 | 14-Pole  | IC Socket     |                             |        |
| J.....4   | 54.01.0299 | 13-Pole   | CIS Socket Strip         |                             | AMP    | XIC....18 | 53.03.0167 | 14-Pole  | IC Socket     |                             |        |
| J.....5   | 54.01.0299 | 13-Pole   | CIS Socket Strip         |                             | AMP    | XIC....22 | 53.03.0168 | 16-Pole  | IC-Socket     |                             |        |

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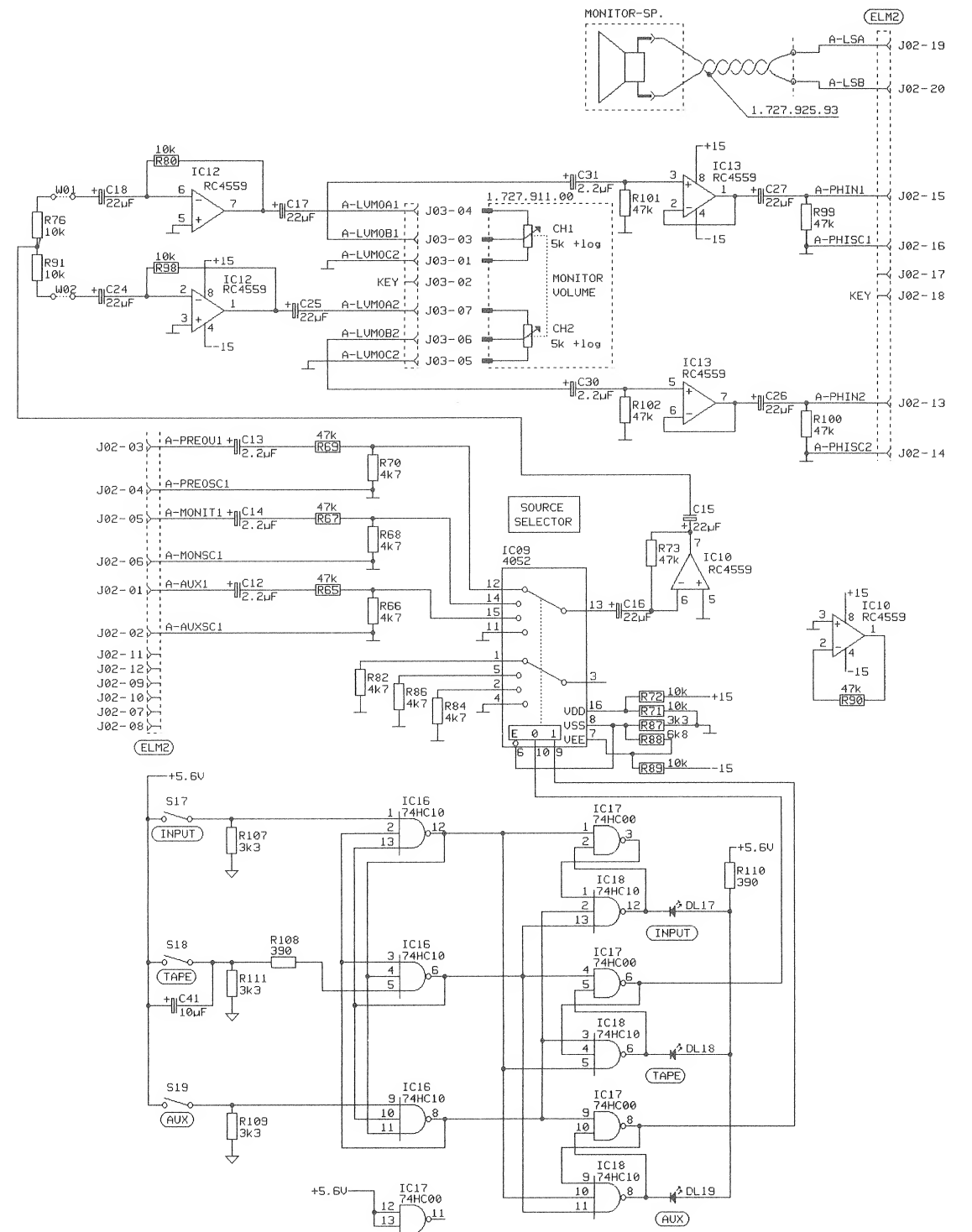
| IND.      | POS.NO.      | PART NO.   | VALUE          | SPECIFICATIONS / EQUIVALENT | MANUF. | IND. | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|--------------|------------|----------------|-----------------------------|--------|------|---------|----------|-------|-----------------------------|--------|
| ME.....1  | 1.727.360.01 |            |                | VU Meter                    |        |      |         |          |       |                             |        |
| MP.....1  | 43.01.0108   | 1 pcs      |                | ESE Warning label           |        |      |         |          |       |                             |        |
| MP.....2  | 53.03.0221   | 13 pcs     |                | 2-pole LED Socket           |        |      |         |          |       |                             |        |
| MP.....3  | 1.011.235.03 | 1 pcs      |                | Push button case 3*         |        |      |         |          |       |                             |        |
| MP.....4  | 1.011.235.04 | 2 pcs      |                | Push button case 4*         |        |      |         |          |       |                             |        |
| MP.....5  | 1.011.235.23 | 1 pcs      |                | Conductive rubber 3*        |        |      |         |          |       |                             |        |
| MP.....6  | 1.011.235.24 | 2 pcs      |                | Conductive rubber 4*        |        |      |         |          |       |                             |        |
| MP.....7  | 1.011.235.29 | 9 pcs      |                | Bolt                        |        |      |         |          |       |                             |        |
| MP.....8  | 1.011.235.30 | 9 pcs      |                | Push button 14x5            |        |      |         |          |       |                             |        |
| MP.....9  | 1.011.235.32 | 3 pcs      |                | Calotte red                 |        |      |         |          |       |                             |        |
| MP.....10 | 1.011.235.33 | 6 pcs      |                | Calotte yel                 |        |      |         |          |       |                             |        |
| MP.....11 | 1.011.235.35 | 2 pcs      |                | Dummy push button 19x5      |        |      |         |          |       |                             |        |
| MP.....12 | 1.727.362.93 | 1 pcs      |                | L-List Command Panel Board  |        |      |         |          |       |                             |        |
| MP.....13 | 1.727.938.10 | 1 pcs      |                | No. Label                   |        |      |         |          |       |                             |        |
| MP.....14 | 1.727.928.11 | 1 pcs      |                | VU PANEL PCB                |        |      |         |          |       |                             |        |
| MP.....15 | 1.727.925.93 | 1 pcs      |                | L-List VU PANEL BOARD       |        |      |         |          |       |                             |        |
| P.....1   | 54.02.0320   |            |                | Plug 2.8x0.8                | AMP    |      |         |          |       |                             |        |
| P.....2   | 54.02.0320   |            |                | Plug 2.8x0.8                | AMP    |      |         |          |       |                             |        |
| Q.....1   | 50.03.0436   | BC237B     | BC547B, BC550B | NPN                         |        |      |         |          |       |                             |        |
| Q.....2   | 50.03.0436   | BC237B     | BC547B, BC550B | NPN                         |        |      |         |          |       |                             |        |
| Q.....3   | 50.03.0436   | BC237B     | BC547B, BC550B | NPN                         |        |      |         |          |       |                             |        |
| R.....1   | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....2   | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....5   | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....6   | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....7   | 57.11.3391   | 390 Ohm    | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....8   | 57.11.3272   | 2.7 kOhm   | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....9   | 57.11.3474   | 470 kOhm   | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....10  | 57.11.3682   | 6.8 kOhm   | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....11  | 57.11.3682   | 6.8 kOhm   | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....12  | 57.11.3682   | 6.8 kOhm   | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| R.....13  | 57.11.3203   | 20 kOhm    | 1%, 0.25W, MF  |                             |        |      |         |          |       |                             |        |
| (00)      | R.....14     | 57.11.3203 | 20 kOhm        | 1%, 0.25W, MF               |        |      |         |          |       |                             |        |

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ORIG 89/07/13 (01) 90/01/11

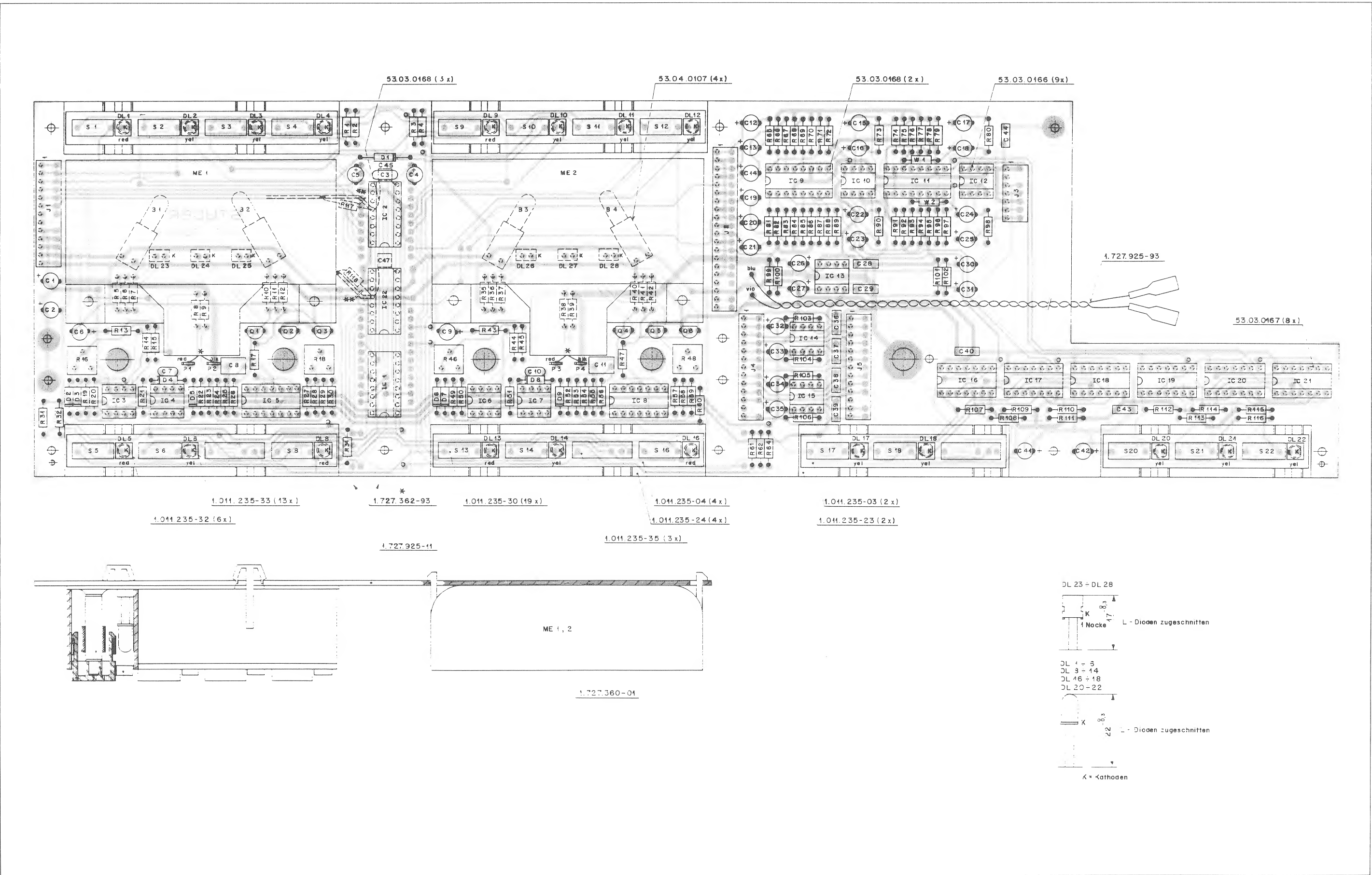
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|-----------------|---------------------|---|---|-----------------|
| ⑩ 12.08.91 With | ①                   | ② | ○ | ○               |
|                 | A 807 GR 92         |   |   | PAGE 1 OF 2     |
| STUDER          | UU-PANEL BOARD MONO |   |   | SC 1.727.938-82 |



|                |  |  |  |                     |  |   |  |   |  |              |  |
|----------------|--|--|--|---------------------|--|---|--|---|--|--------------|--|
| ⑥ 12-08.91 Wth |  |  |  | ①                   |  | ② |  | ○ |  | ○            |  |
|                |  |  |  | A 807 GR 92         |  |   |  |   |  | PAGE 2 OF 2  |  |
| STUDER         |  |  |  | UU-PANEL BOARD MONO |  |   |  |   |  | 1.727.938-82 |  |

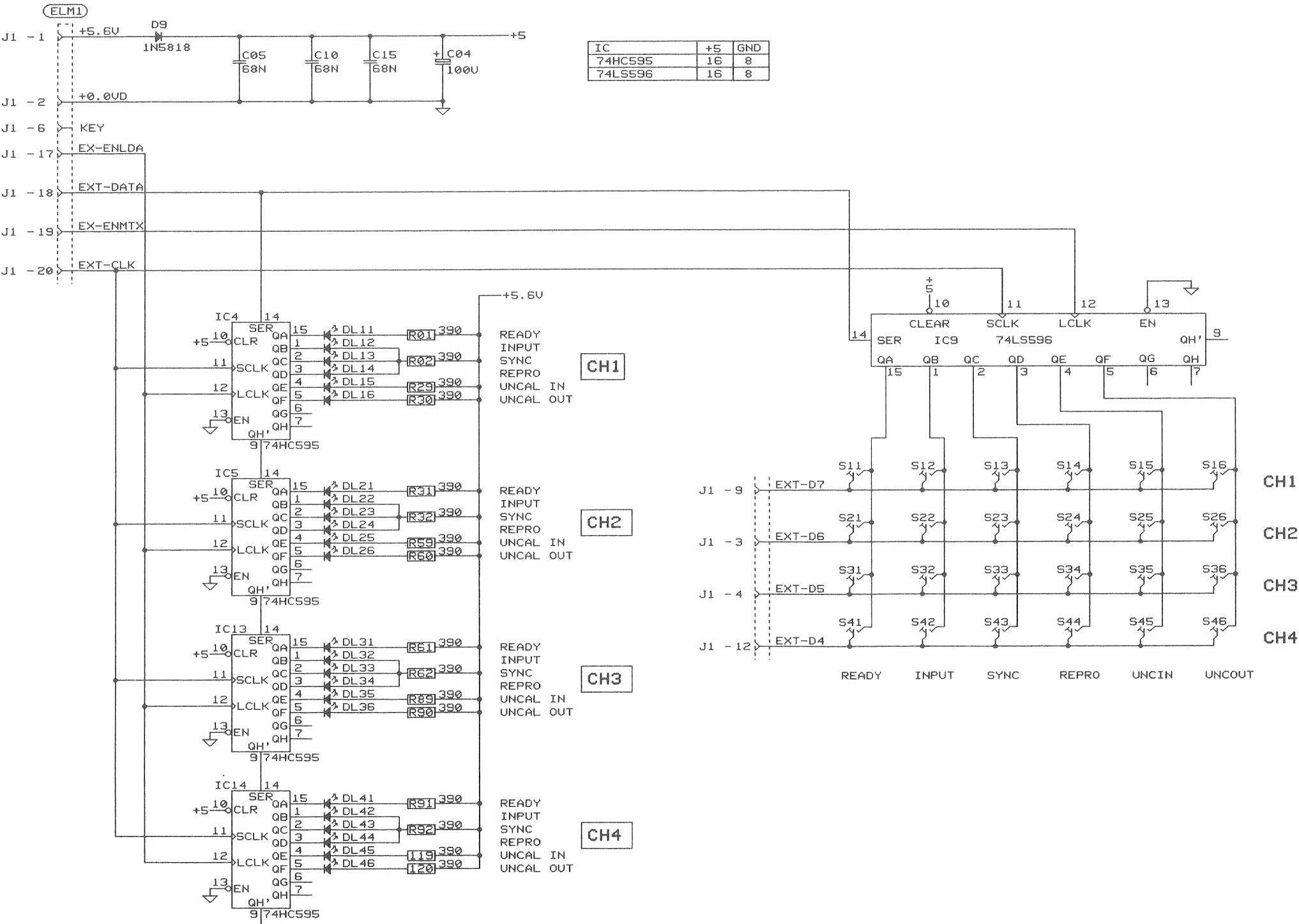
VU-PANEL BOARD MONO 1.727.938.82



**VU-PANEL BOARD MONO 1.727.938.82**

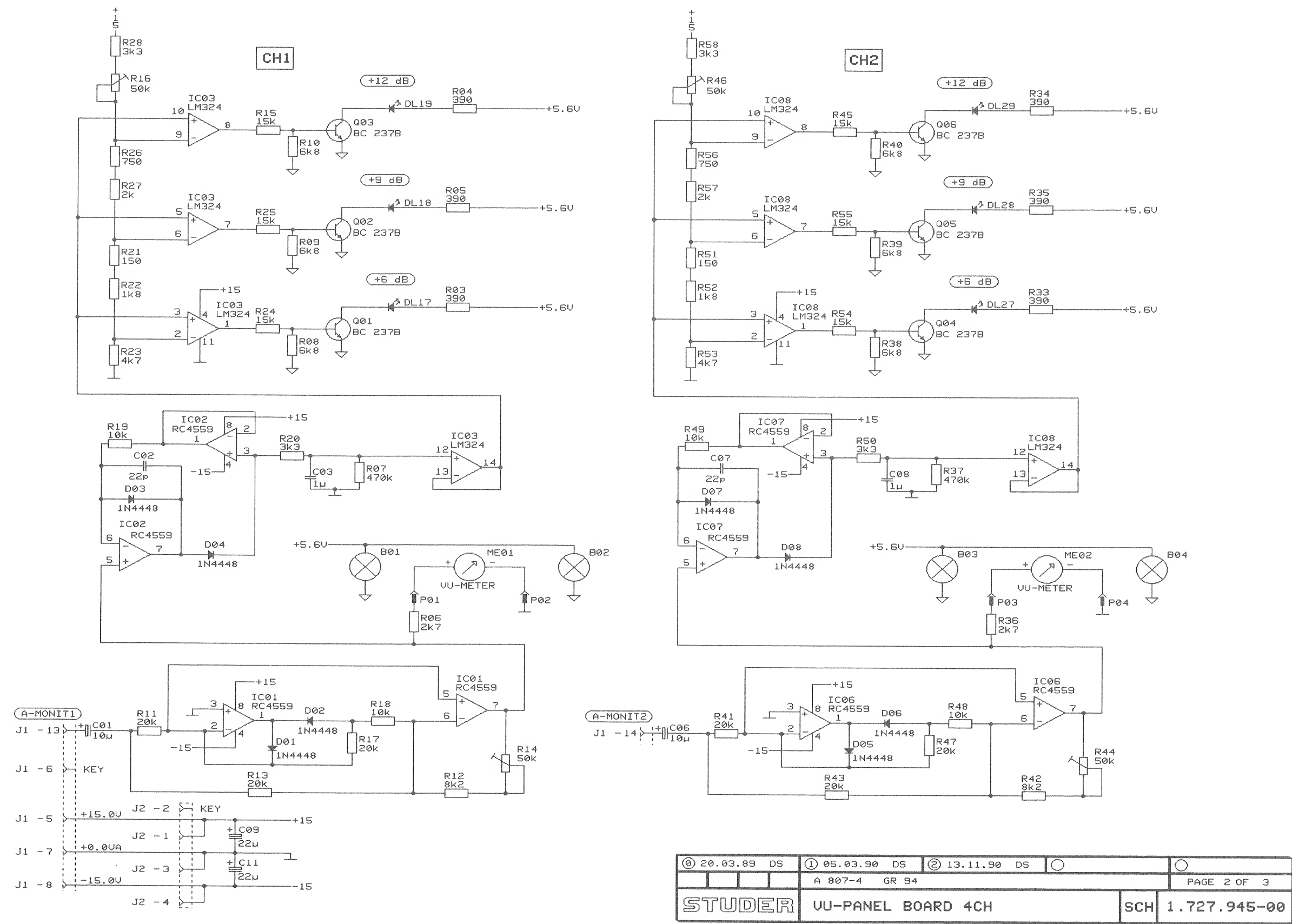
| IND.    | POS.NO.    | PART NO. | VALUE     | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|------------|----------|-----------|-----------------------------|--------|---------|------------|----------|-------------------|-----------------------------|--------|
| B....1  | 51.02.0144 | 6 V      | 0.03 A    | Lamp                        |        | R....10 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
| B....2  | 51.02.0144 | 6 V      | 0.03 A    | Lamp                        |        | R....11 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
| C....1  | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....12 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
| C....2  | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....13 | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....3  | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....14 | 57.11.3682 | 8.2 kOhm | 1%, 0.25W, MF     |                             |        |
| C....4  | 59.22.3101 | 100 uF   | -20% 10 V | EL                          |        | R....15 | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....5  | 59.22.3101 | 100 uF   | -20% 10 V | EL                          |        | R....16 | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCera |                             |        |
| C....6  | 59.22.6100 | 10 uF    | -20% 25 V | EL                          |        | R....17 | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....7  | 59.34.2220 | 22 pF    | 10% 50 V  | CER                         |        | R....18 | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCera |                             |        |
| C....8  | 59.06.0105 | 1 uF     | 10% 50 V  | PETP                        |        | R....19 | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....12 | 59.22.8229 | 2.2 uF   | -20% 25 V | EL                          |        | R....20 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....13 | 59.22.8229 | 2.2 uF   | -20% 25 V | EL                          |        | R....21 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....14 | 59.22.8229 | 2.2 uF   | -20% 25 V | EL                          |        | R....22 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
| C....15 | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....23 | 57.11.3151 | 150 Ohm  | 1%, 0.25W, MF     |                             |        |
| C....16 | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....24 | 57.11.3182 | 1.8 kOhm | 1%, 0.25W, MF     |                             |        |
| C....17 | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....25 | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
| C....18 | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....26 | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....24 | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....27 | 57.11.3472 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....25 | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....28 | 57.11.3751 | 750 Ohm  | 1%, 0.25W, MF     |                             |        |
| C....26 | 59.22.5220 | 22 uF    | -20% 25 V | EL                          |        | R....29 | 57.11.3202 | 2 kOhm   | 1%, 0.25W, MF     |                             |        |
| C....27 | 59.22.5720 | 22 uF    | -20% 25 V | EL                          |        | R....30 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
| C....28 | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....31 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| C....29 | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....32 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| C....30 | 59.22.8229 | 2.2 uF   | -20% 25 V | EL                          |        | R....34 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| C....31 | 59.22.8229 | 2.2 uF   | -20% 25 V | EL                          |        | R....65 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....34 | 59.22.8229 | 2.2 uF   | -20% 25 V | EL                          |        | R....66 | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
| C....35 | 59.22.8229 | 2.2 uF   | -20% 25 V | EL                          |        | R....67 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....38 | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....68 | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
| C....39 | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....69 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....40 | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....70 | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
| C....41 | 59.22.6100 | 10 uF    | -20% 25 V | EL                          |        | R....71 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....43 | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....72 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....44 | 59.06.0683 | 68 nF    | 10% 50 V  | PETP                        |        | R....73 | 57.11.3473 | 47 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....45 | 59.45.4101 | 100 pF   | 10% 50 V  | CER                         |        | R....76 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....46 |            |          | not used  |                             |        | R....80 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| C....47 | 59.45.4101 | 100 pF   | 10% 50 V  | CER                         |        | R....82 | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
|         |            |          |           |                             |        | R....84 | 57.11.3472 |          |                   |                             |        |

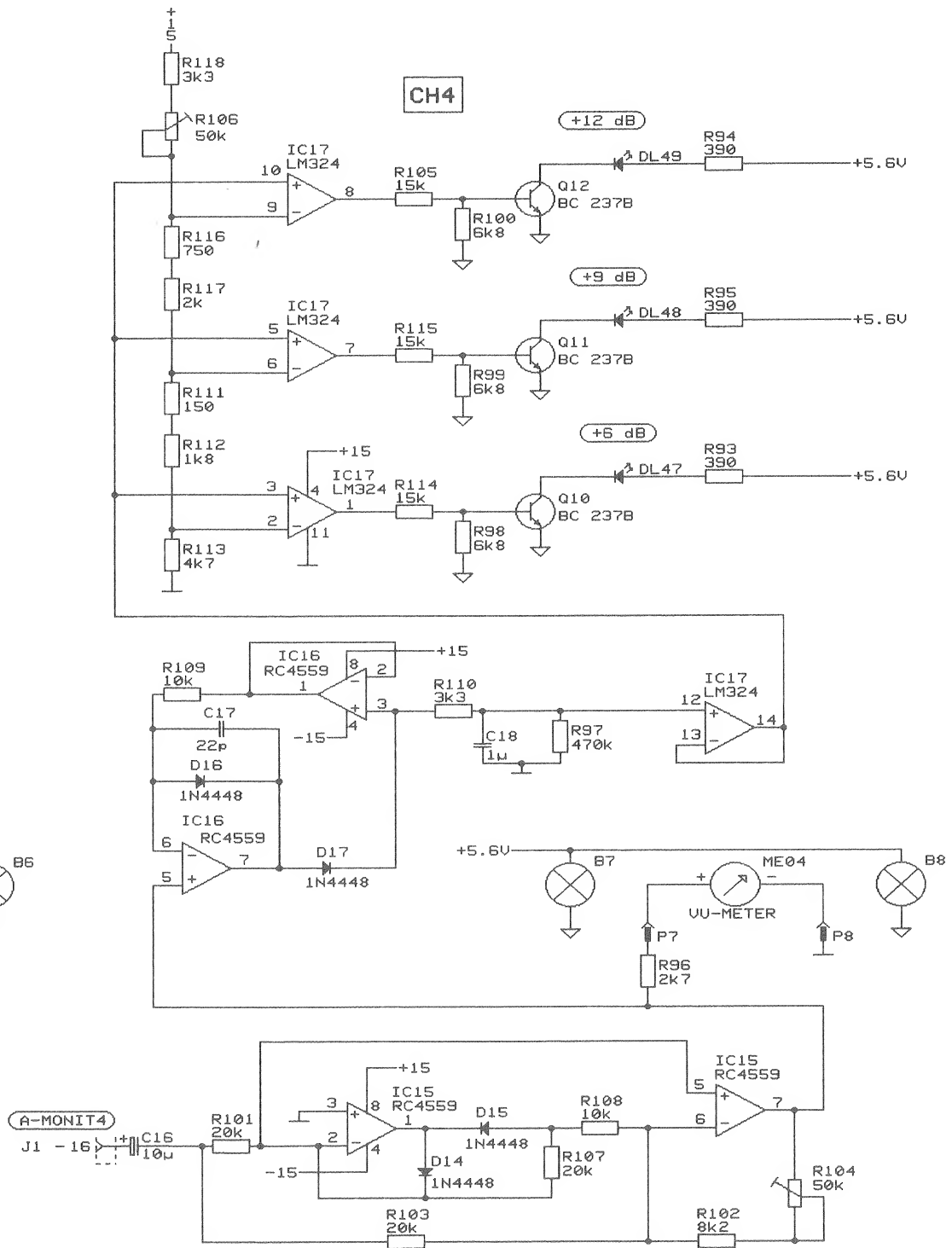
VU-PANEL BOARD (4CH) 1.727.945.00



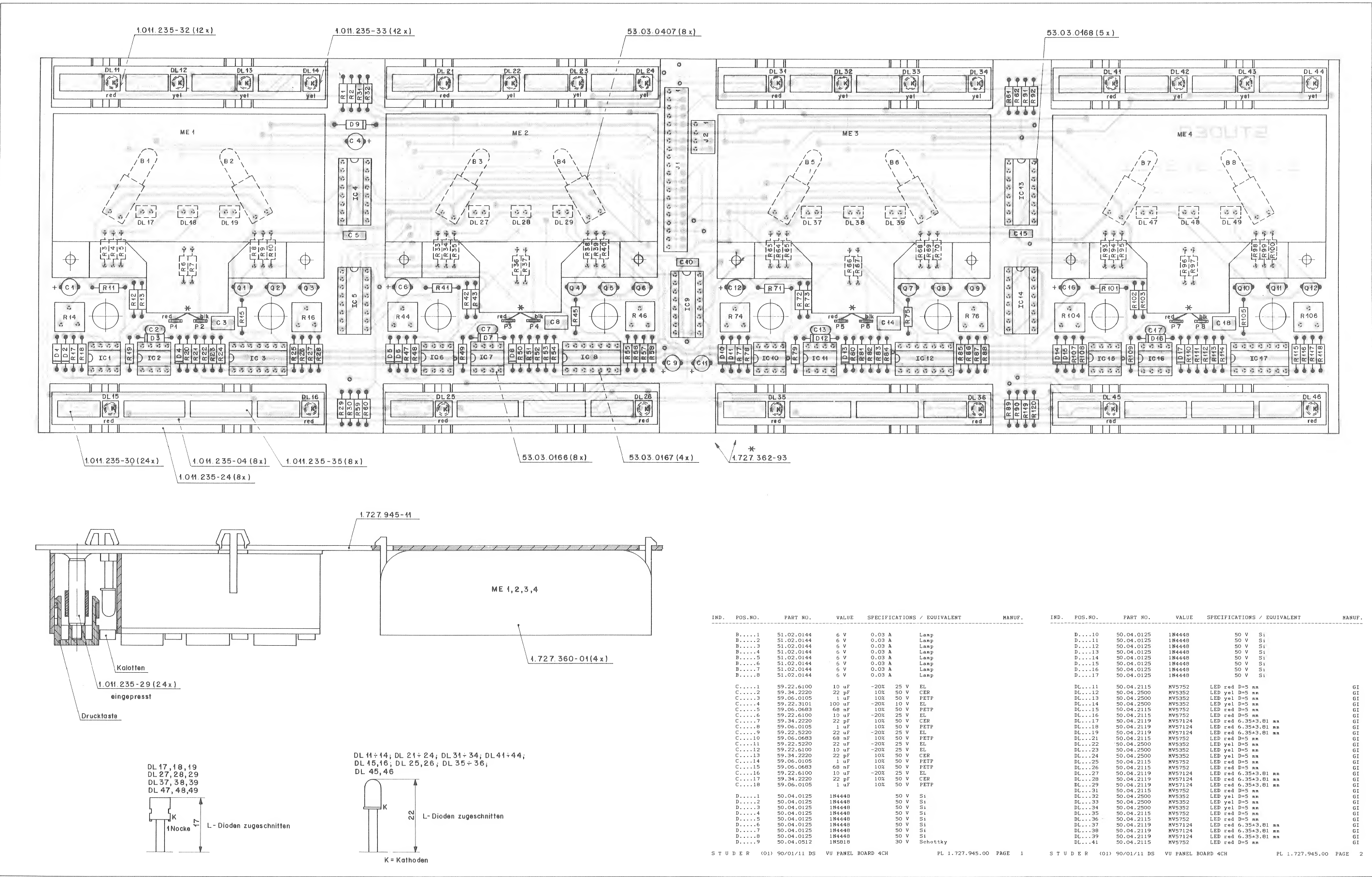


VU-PANEL BOARD (4CH) 1.727.945.00



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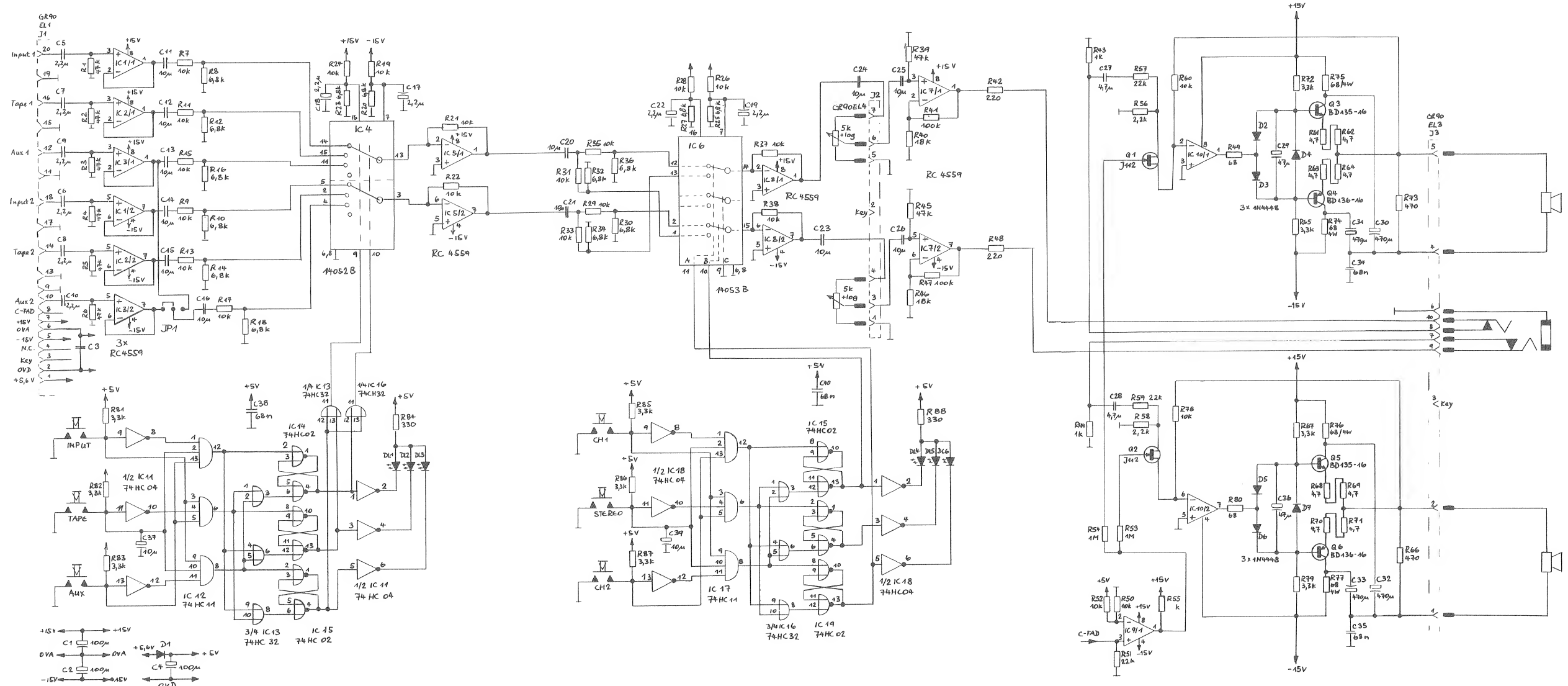
VU-PANEL BOARD (4CH) 1.727.945.00



**VU-PANEL BOARD (4CH) 1.727.945.00**

| IND.   | POS.NO.      | PART NO. | VALUE                     | SPECIFICATIONS / EQUIVALENT | MANUF. | IND.    | POS.NO.    | PART NO. | VALUE             | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|--------------|----------|---------------------------|-----------------------------|--------|---------|------------|----------|-------------------|-----------------------------|--------|
| DL...42  | 50.04.2500   | MV5352   | LED yel D=5 mm            | GI                          |        | R...39  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
| DL...43  | 50.04.2500   | MV5352   | LED yel D=5 mm            | GI                          |        | R...40  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
| DL...44  | 50.04.2500   | MV5352   | LED yel D=5 mm            | GI                          |        | R...41  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
| DL...45  | 50.04.2115   | MV5752   | LED red D=5 mm            | GI (00)                     |        | R...42  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
| DL...46  | 50.04.2115   | MV5752   | LED red D=5 mm            | GI (01)                     |        | R...42  | 57.11.3622 | 8.2 kOhm | 1%, 0.25W, MF     |                             |        |
| DL...47  | 50.04.2119   | MV57124  | LED red 6.35x3.81 mm      | GI                          |        | R...43  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
| DL...48  | 50.04.2119   | MV57124  | LED red 6.35x3.81 mm      | GI                          |        | R...44  | 58.01.8203 | 20 kOhm  | 10%, 0.5 W, PCERM |                             |        |
| DL...49  | 50.04.2119   | MV57124  | LED red 6.35x3.81 mm      | GI (01)                     |        | R...44  | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCERM |                             |        |
| IC...1   | 50.09.0107   | RC 4559  | Dual Op. Amp.             | Ra (00)                     |        | R...45  | 57.11.3153 | 15 khhm  | 1%, 0.25W, MF     |                             |        |
| IC...2   | 50.09.0107   | RC 4559  | Dual Op. Amp.             | Ra (01)                     |        | R...46  | 58.01.8203 | 20 kOhm  | 10%, 0.5 W, PCERM |                             |        |
| IC...3   | 50.05.0199   | LM 324   | Quad Op. Amp.             | NS,Mot                      |        | R...46  | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCERM |                             |        |
| IC...4   | 50.17.1595   | 74HC595  | 8-Bit Shift Register Tri  | Ra                          |        | R...47  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
| IC...5   | 50.17.1595   | 74HC595  | 8-Bit Shift Register Tri  | Ra                          |        | R...48  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| IC...6   | 50.09.0107   | RC 4559  | Dual Op. Amp.             | NS,Mot                      |        | R...49  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
| IC...7   | 50.09.0107   | RC 4559  | Dual Op. Amp.             | Ra                          |        | R...50  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
| IC...8   | 50.05.0199   | LM 324   | Quad Op. Amp.             | Ra                          |        | R...51  | 57.11.3151 | 150 Ohm  | 1%, 0.25W, MF     |                             |        |
| IC...9   | 50.06.0896   | 74LS595  | 8-Bit Shift Register O.C. | NS,Mot                      |        | R...52  | 57.11.3182 | 1.8 kOhm | 1%, 0.25W, MF     |                             |        |
| IC...10  | 50.09.0107   | RC 4559  | Dual Op. Amp.             | Ra                          |        | R...53  | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
| IC...11  | 50.09.0107   | RC 4559  | Dual Op. Amp.             | Ra                          |        | R...54  | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
| IC...12  | 50.05.0199   | LM 324   | Quad Op. Amp.             | Ra                          |        | R...55  | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
| IC...13  | 50.17.1595   | 74HC595  | 8-Bit Shift Register Tri  | NS,Mot                      |        | R...56  | 57.11.3751 | 750 Ohm  | 1%, 0.25W, MF     |                             |        |
| IC...14  | 50.17.1595   | 74HC595  | 8-Bit Shift Register Tri  | Ra                          |        | R...57  | 57.11.3202 | 2.0 kOhm | 1%, 0.25W, MF     |                             |        |
| IC...15  | 50.09.0107   | RC 4559  | Dual Op. Amp.             | Ra                          |        | R...58  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
| IC...16  | 50.09.0107   | RC 4559  | Dual Op. Amp.             | Ra                          |        | R...59  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| IC...17  | 50.05.0199   | LM 324   | Quad Op. Amp.             | NS,Mot                      |        | R...60  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| J...1  | 54.01.0237   | 20-Pole  | CIS Socket Strip          | AMP                         |        | R...61  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| J...2  | 54.01.0298   | 4-Pole   | CIS Socket Strtp          | AMP                         |        | R...62  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| ME...1   | 1.727.360.01 |          | VU Meter                  | ST                          |        | R...63  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| ME...2   | 1.727.360.01 |          | VU Meter                  | ST                          |        | R...64  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| ME...3   | 1.727.360.01 |          | VU Meter                  | ST                          |        | R...65  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
| ME...4   | 1.727.360.01 |          | VU Meter                  | ST                          |        | R...66  | 57.11.3272 | 2.7 kOhm | 1%, 0.25W, MF     |                             |        |
| MP...1   | 43.01.0108   | 1 pce    | ESE Warning label         |                             |        | R...67  | 57.11.3474 | 470 kOhm | 1%, 0.25W, MF     |                             |        |
| MP...2   | 53.03.0221   | 36 pce   | 2-pole LED Socket         |                             |        | R...68  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
| S T U D E R (01) 90/01/11 DS VU PANEL BOARD 4CH PL 1.727.945.00 PAGE 3 |              |          |                           |                             |        | R...69  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...70  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...71  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...72  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...73  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...74  | 58.01.8203 | 20 kOhm  | 10%, 0.5 W, PCERM |                             |        |
|  |              |          |                           |                             |        | R...75  | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCERM |                             |        |
|  |              |          |                           |                             |        | R...76  | 58.01.8203 | 20 kOhm  | 10%, 0.5 W, PCERM |                             |        |
|  |              |          |                           |                             |        | R...77  | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCERM |                             |        |
|  |              |          |                           |                             |        | R...78  | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...79  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...80  | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...81  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...82  | 57.11.3151 | 150 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...83  | 57.11.3182 | 1.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...84  | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...85  | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...86  | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...87  | 57.11.3751 | 750 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...88  | 57.11.3202 | 2.0 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...89  | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...90  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...91  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...92  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...93  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...94  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...95  | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...96  | 57.11.3272 | 2.7 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...97  | 57.11.3474 | 470 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...98  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...99  | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...100 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...101 | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...102 | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...103 | 57.11.3622 | 8.2 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...104 | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...105 | 58.01.8203 | 20 kOhm  | 10%, 0.5 W, PCERM |                             |        |
|  |              |          |                           |                             |        | R...106 | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCERM |                             |        |
|  |              |          |                           |                             |        | R...107 | 58.01.8503 | 50 kOhm  | 10%, 0.5 W, PCERM |                             |        |
|  |              |          |                           |                             |        | R...108 | 57.11.3203 | 20 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...109 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...110 | 57.11.3103 | 10 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...111 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...112 | 57.11.3151 | 150 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...113 | 57.11.3182 | 1.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...114 | 57.11.3472 | 4.7 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...115 | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...116 | 57.11.3153 | 15 kOhm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...117 | 57.11.3751 | 750 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...118 | 57.11.3202 | 2.0 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...119 | 57.11.3332 | 3.3 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...120 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...121 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...122 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...123 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...124 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...125 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...126 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...127 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...128 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...129 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...130 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...131 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...132 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...133 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...134 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...135 | 57.11.3391 | 390 Ohm  | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...136 | 57.11.3272 | 2.7 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...137 | 57.11.3474 | 470 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...138 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...139 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...140 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...141 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...142 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...143 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...144 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...145 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...146 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...147 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...148 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...149 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...150 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...151 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...152 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...153 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...154 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...155 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...156 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...157 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...158 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...159 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...160 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...161 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...162 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...163 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...164 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...165 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...166 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...167 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...168 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...169 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...170 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...171 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...172 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...173 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...174 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...175 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...176 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...177 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...178 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...179 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...180 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...181 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...182 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...183 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...184 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...185 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...186 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...187 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...188 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...189 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...190 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...191 | 57.11.3682 | 6.8 kOhm | 1%, 0.25W, MF     |                             |        |
|  |              |          |                           |                             |        | R...192 | 57.11.3682 | 6.8 kOhm |                   |                             |        |

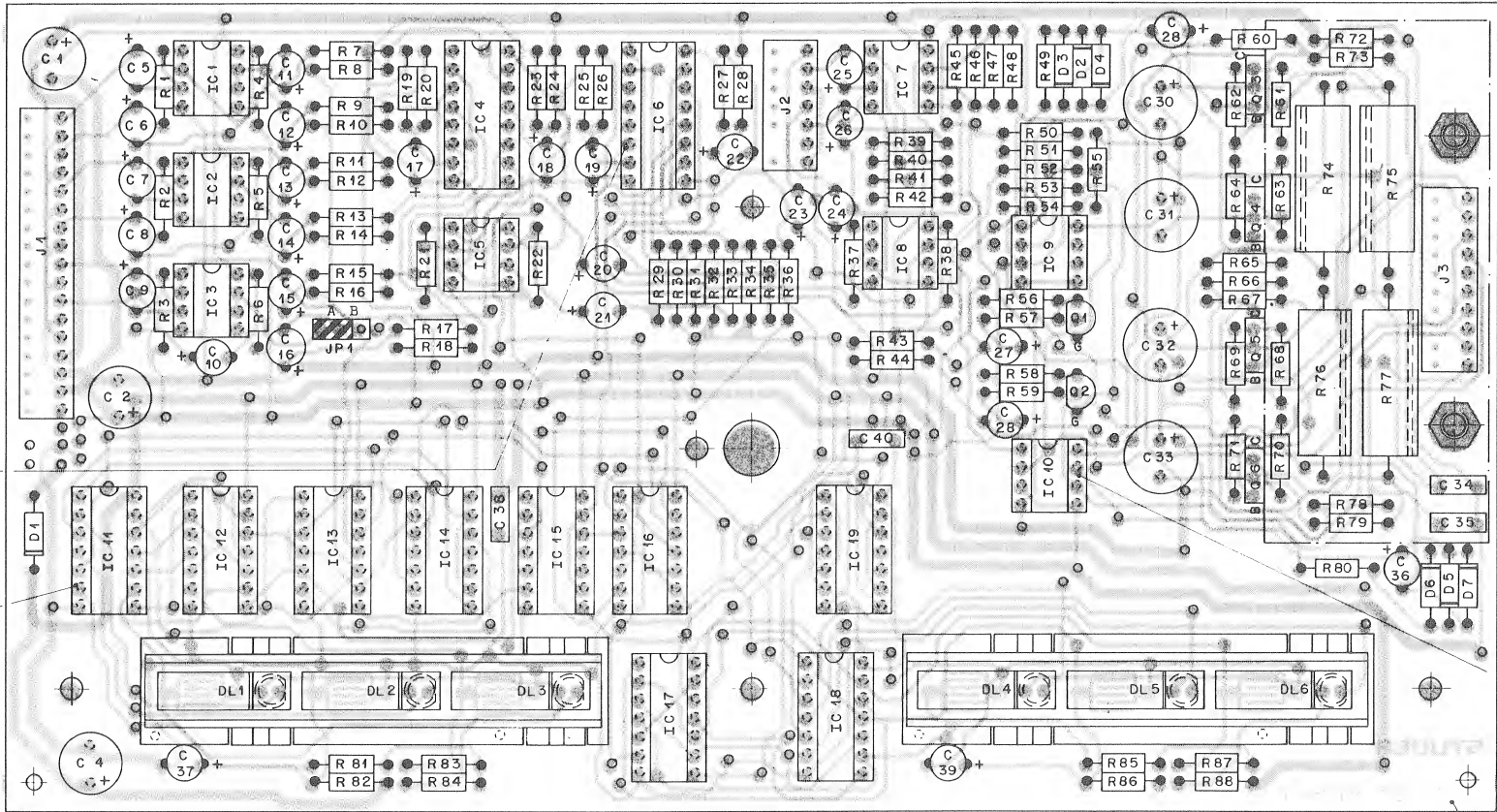
## MONITOR BOARD 1.727.910.00



|         |    |               |     |              |     |
|---------|----|---------------|-----|--------------|-----|
| ① 81286 | 8x | ...           | ... | ...          | ... |
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| STUDER  |    | MONITOR BOARD |     | 1.727.910.00 |     |



MONITOR BOARD 1.727.910.00



| IND.     | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT <sup>f</sup> | MANUF. |
|----------|---------|------------|----------|--|--------|
| C.....1  |         | 59.22.5101 | 100 uF   | -20% 25 V EL                             |        |
| C.....2  |         | 59.22.5101 | 100 uF   | -20% 25 V EL                             |        |
| C.....3  |         | 59.22.5101 | not used |  |        |
| C.....4  |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....5  |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....6  |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....7  |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....8  |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....9  |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....10 |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....11 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....12 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....13 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....14 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....15 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....16 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....17 |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....18 |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....19 |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....20 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....21 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....22 |         | 59.22.8229 | 2.2 uF   | -20% 50 V EL                             |        |
| C.....23 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....24 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....25 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....26 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |
| C.....27 |         | 59.22.8479 | 4.7 uF   | -20% 50 V EL                             |        |
| C.....28 |         | 59.22.8479 | 4.7 uF   | -20% 50 V EL                             |        |
| C.....29 |         | 59.22.1610 | 4.7 uF   | -20% 10 V EL                             |        |
| C.....30 |         | 59.22.4471 | 470 uF   | -20% 16 V EL                             |        |
| C.....31 |         | 59.22.4471 | 470 uF   | -20% 16 V EL                             |        |
| C.....32 |         | 59.22.4471 | 470 uF   | -20% 16 V EL                             |        |
| C.....33 |         | 59.22.4471 | 470 uF   | -20% 16 V EL                             |        |
| C.....34 |         | 59.06.0683 | 68 nF    | 10% 63 V PE                              |        |
| C.....35 |         | 59.06.0683 | 68 nF    | 10% 63 V PE                              |        |
| C.....36 |         | 59.22.3470 | 47 uF    | -20% 10 V EL                             |        |
| C.....37 |         | 59.22.6100 | 10 uF    | -20% 35 V EL                             |        |

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| IND.      | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|---------|------------|---------|-----------------------------|--------|
| C.....38  |         | 59.06.0683 | 68 nF   | 10% 63 V PE                 |        |
| C.....39  |         | 59.22.6100 | 10 uF   | -20% 35 V EL                |        |
| C.....40  |         | 59.06.0683 | 68 nF   | 10% 63 V PE                 |        |
| D.....1   |         | 50.04.0512 | IN5818  | 30 V                        |        |
| D.....2   |         | 50.04.0125 | IN4448  | 75 V                        |        |
| D.....3   |         | 50.04.0125 | IN4448  | 75 V                        |        |
| D.....4   |         | 50.04.0125 | IN4448  | 75 V                        |        |
| D.....5   |         | 50.04.0125 | IN4448  | 75 V                        |        |
| D.....6   |         | 50.04.0125 | IN4448  | 75 V                        |        |
| D.....7   |         | 50.04.0125 | IN4448  | 75 V                        |        |
| DL.....1  |         | 50.04.2500 | MV5352  | LED yel 0.5mm               | G1     |
| DL.....2  |         | 50.04.2500 | MV5352  | LED yel 0.5mm               | G1     |
| DL.....3  |         | 50.04.2500 | MV5352  | LED yel 0.5mm               | G1     |
| DL.....4  |         | 50.04.2500 | MV5352  | LED yel 0.5mm               | G1     |
| DL.....5  |         | 50.04.2500 | MV5352  | LED yel 0.5mm               | G1     |
| DL.....6  |         | 50.04.2500 | MV5352  | LED yel 0.5mm               | G1     |
| IC.....1  |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....2  |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....3  |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....4  |         | 50.07.0024 | MC14052 | DUAL 4-CH AMUX              |        |
| IC.....5  |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....6  |         | 50.07.0015 | MC14053 | TRIPLE 2-CH AMUX            |        |
| IC.....7  |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....8  |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....9  |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....10 |         | 50.09.0107 | RC 4559 | DUAL OP-AMP.                |        |
| IC.....11 |         | 50.17.1004 | 74HC04  | HEX INVERTER                |        |
| IC.....12 |         | 50.17.1011 | 74HC11  | TRIP 3-INPUT AND GATE       |        |
| IC.....13 |         | 50.17.1032 | 74HC32  | QUAD 2-INPUT OR GATE        |        |
| IC.....14 |         | 50.17.1002 | 74HC02  | QUAD 2-INPUT NOR GATE       |        |
| IC.....15 |         | 50.17.1002 | 74HC02  | QUAD 2-INPUT NOR GATE       |        |
| IC.....16 |         | 50.17.1032 | 74HC32  | QUAD 2-INPUT OR GATE        |        |
| IC.....17 |         | 50.17.1011 | 74HC11  | TRIP 3-INPUT AND GATE       |        |
| IC.....18 |         | 50.17.1004 | 74HC04  | HEX INVERTER                |        |

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| IND.      | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|---------|--------------|----------|-----------------------------|--------|
| IC.....19 |         | 50.17.1002   | 74HC02   | QUAD 2-INPUT NOR GATE       |        |
| J.....1   |         | 54.01.0237   | 20-POLE  | C15 Socket Strip            | AMP    |
| J.....2   |         | 54.01.0263   | 7-POLE   | C15 Socket Strip            | AMP    |
| J.....3   |         | 54.01.0242   | 10-POLE  | C15 Socket Strip            | AMP    |
| JP.....1  |         | 54.01.0021   |          | Bridge                      |        |
| MP.....1  |         | 1.727.910.11 | 1 pcs    | Monitor PCB                 |        |
| MP.....2  |         | 54.01.0020   | 3 pcs    | Contact Pin                 |        |
| MP.....3  |         | 1.727.910.01 | 1 pcs    | Kuehlblech                  |        |
| MP.....4  |         | 1.011.235.03 | 2 pcs    | Tastengehause 3er           |        |
| MP.....5  |         | 1.011.235.23 | 2 pcs    | Schaltmatte 3er             |        |
| MP.....6  |         | 1.011.235.29 | 6 pcs    | Boilzen                     |        |
| MP.....7  |         | 1.011.235.30 | 6 pcs    | Drucktaste                  |        |
| MP.....8  |         | 1.011.235.33 | 6 pcs    | Kalotte gelb                |        |
| MP.....9  |         | 1.727.910.10 | 0 pcs    | No-Schlid                   |        |
| MP.....10 |         | 53.03.0221   | 6 pcs    | LEO Socket                  |        |
| MP.....11 |         | 1.010.050.22 | 2 pcs    | Distanzboilzen 18mm         |        |
| MP.....12 |         | 21.53.0355   | 2 pcs    | Schr.rauben M3x8mm          |        |
| MP.....13 |         | 24.16.1030   | 2 pcs    | Sicherungsscheiben          |        |
| MP.....14 |         | 50.20.2002   | 4 pcs    | Transistorenclips           |        |
| MP.....15 |         | 50.20.0314   | 4 pcs    | Isolierscheiben             |        |
| Q.....1   |         | 50.03.0350   | MPF4392  | J112 FET                    |        |
| Q.....2   |         | 50.03.0350   | MPF4392  | J112 FET                    |        |
| Q.....3   |         | 50.03.0495   | BD135-16 | NPN                         |        |
| Q.....4   |         | 50.03.0510   | BD135-16 | PNP                         |        |
| Q.....5   |         | 50.03.0495   | BD135-16 | NPN                         |        |
| Q.....6   |         | 50.03.0510   | BD135-16 | PNP                         |        |
| R.....1   |         | 57.11.4473   | 47 kOhm  | 2%, 0.25W, MF               |        |
| R.....2   |         | 57.11.4473   | 47 kOhm  | 2%, 0.25W, MF               |        |
| R.....3   |         | 57.11.4473   | 47 kOhm  | 2%, 0.25W, MF               |        |
| R.....4   |         | 57.11.4473   | 47 kOhm  | 2%, 0.25W, MF               |        |
| R.....5   |         | 57.11.4473   | 47 kOhm  | 2%, 0.25W, MF               |        |
| R.....6   |         | 57.11.4473   | 47 kOhm  | 2%, 0.25W, MF               |        |

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## MONITOR BOARD 1.727.910.00

| IND.    | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|---------|------------|----------|-----------------------------|--------|
| R....7  |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....8  |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....9  |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....10 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....11 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....12 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....13 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....14 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....15 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....16 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....17 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....18 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....19 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....20 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....21 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....22 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....23 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....24 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....25 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....26 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....27 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....28 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....29 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....30 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....31 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....32 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....33 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....34 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....35 |         | 57.11.3103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....36 |         | 57.11.4682 | 6.8 kOhm | 2%, 0.25W, MF               |        |
| R....37 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....38 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....39 |         | 57.11.4473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R....40 |         | 57.11.4183 | 18 kOhm  | 2%, 0.25W, MF               |        |
| R....41 |         | 57.11.4104 | 100 kOhm | 2%, 0.25W, MF               |        |
| R....42 |         | 57.11.4221 | 220 Ohm  | 2%, 0.25W, MF               |        |
| R....43 |         | 57.11.4102 | 1 kOhm   | 2%, 0.25W, MF               |        |

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| IND.     | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|------------|----------|-----------------------------|--------|
| R....81  |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....82  |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....83  |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....84  |         | 57.11.4331 | 330 Ohm  | 2%, 0.25W, MF               |        |
| R....85  |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....86  |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....87  |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....88  |         | 57.11.4331 | 330 Ohm  | 2%, 0.25W, MF               |        |
| XIC...1  |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...2  |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...3  |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...4  |         | 54.03.0168 | 16 Pole  | IC Socket                   |        |
| XIC...5  |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...6  |         | 54.03.0168 | 16 Pole  | IC Socket                   |        |
| XIC...7  |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...8  |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...9  |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...10 |         | 54.03.0166 | 8 Pole   | IC Socket                   |        |
| XIC...11 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...12 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...13 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...14 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...15 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...16 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...17 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...18 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |
| XIC...19 |         | 54.03.0167 | 14 Pole  | IC Socket                   |        |

EL=Electrolytic, PP=Polypropylene, SI=Silicon, MF=Metal Film  
MANUFACTURER:

ORIG 86/07/11

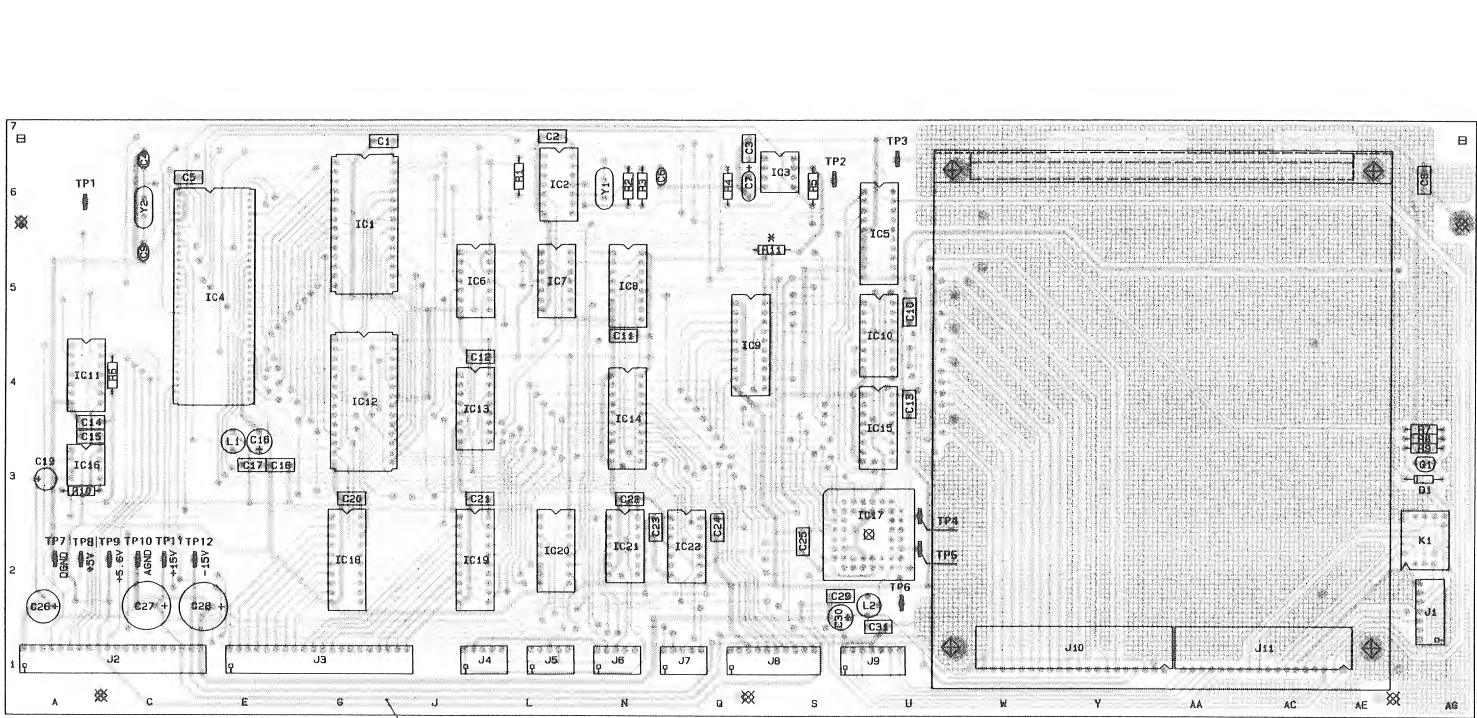
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| IND.    | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|---------|------------|----------|-----------------------------|--------|
| R....44 |         | 57.11.4102 | 1 kOhm   | 2%, 0.25W, MF               |        |
| R....45 |         | 57.11.4473 | 47 kOhm  | 2%, 0.25W, MF               |        |
| R....46 |         | 57.11.4183 | 18 kOhm  | 2%, 0.25W, MF               |        |
| R....47 |         | 57.11.4104 | 100 kOhm | 2%, 0.25W, MF               |        |
| R....48 |         | 57.11.4221 | 220 Ohm  | 2%, 0.25W, MF               |        |
| R....49 |         | 57.11.4680 | 6.8 Ohm  | 2%, 0.25W, MF               |        |
| R....50 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....51 |         | 57.11.4223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R....52 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....53 |         | 57.11.4105 | 1 MOhm   | 2%, 0.25W, MF               |        |
| R....54 |         | 57.11.4105 | 1 MOhm   | 2%, 0.25W, MF               |        |
| R....55 |         | 57.11.4223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R....56 |         | 57.11.4222 | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R....57 |         | 57.11.4223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R....58 |         | 57.11.4222 | 2.2 kOhm | 2%, 0.25W, MF               |        |
| R....59 |         | 57.11.4223 | 22 kOhm  | 2%, 0.25W, MF               |        |
| R....60 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....61 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....62 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....63 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....64 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....65 |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....66 |         | 57.11.4471 | 470 Ohm  | 2%, 0.25W, MF               |        |
| R....67 |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....68 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....69 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....70 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....71 |         | 57.11.4479 | 4.7 Ohm  | 2%, 0.25W, MF               |        |
| R....72 |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....73 |         | 57.11.4471 | 470 Ohm  | 2%, 0.25W, MF               |        |
| R....74 |         | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR                 |        |
| R....75 |         | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR                 |        |
| R....76 |         | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR                 |        |
| R....77 |         | 57.56.5680 | 68 Ohm   | 2%, 4 W, DR                 |        |
| R....78 |         | 57.11.4103 | 10 kOhm  | 2%, 0.25W, MF               |        |
| R....79 |         | 57.11.4332 | 3.3 kOhm | 2%, 0.25W, MF               |        |
| R....80 |         | 57.11.4680 | 6.8 Ohm  | 2%, 0.25W, MF               |        |

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TIME CODE PROCESSOR BAORD 1.727.710.20



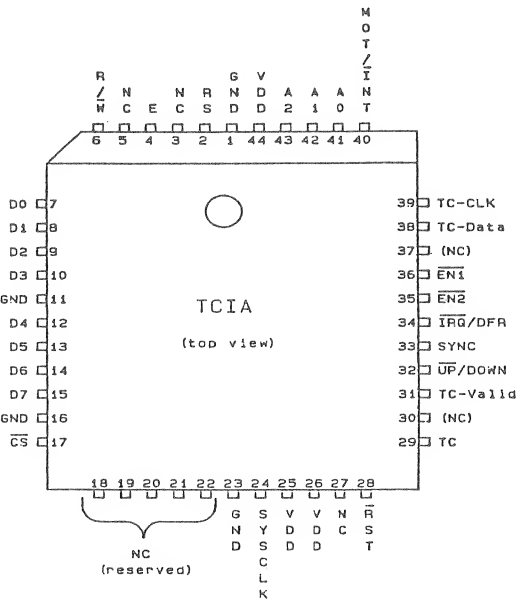
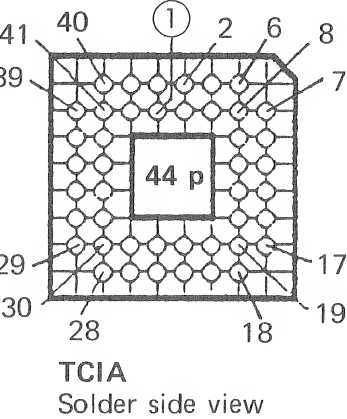
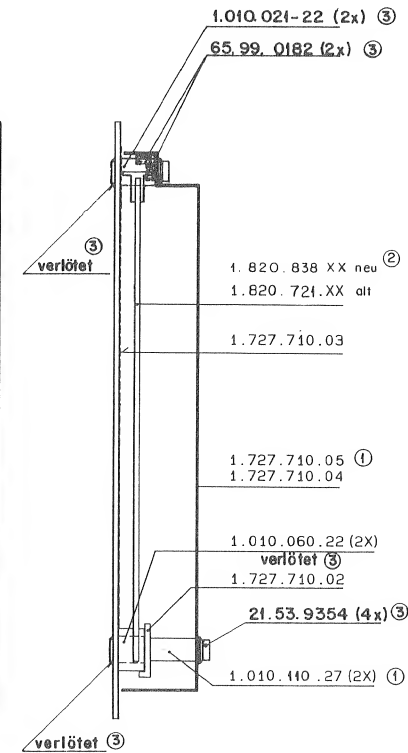
| STECKER | CODIERUNG IN LOCH NR: |
|---------|-----------------------|
| J1      | 2                     |
| J2      | 11                    |
| J3      | 13                    |
| J4      | 3                     |
| J5      | 2                     |
| J6      | 5                     |
| J7      | 2 UND 4               |
| J8      | 9                     |
| J9      | 5                     |

\* MANUELL BESTUECKT

NR. ETIKETTE 1.727.710-10,43.01.0108, 1.101.001-20  
AUFGEKLEBT NACH FABRIKATIONSMUSTER

CODIERUNG: SCHALTDRAHT 69.01.0108 0.8 X 6MM  
(MUSS 1MM VORSTEHEN)

- TP1 Timecode clock signal
- TP2 Timecode delayed
- TP3 +0VA
- TP4 Timecode data
- TP5 Timecode valid signal
- TP6 Timecode input signal
- TP7 +0VD
- TP8 +5.0V
- TP9 +5.6V
- TP10 +0VA
- TP11 +15V
- TP12 -15V



| IND.     | POS.NO. | PART NO.     | VALUE  | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|--------------|--------|-----------------------------|--------|
| A.....1  |         | 1.820.721.86 |        | Time Code Read-Write Unit   | St     |
| C.....1  |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....2  |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....3  |         | 59.06.0104   | 100 nF | 10% 63 V PETP               |        |
| C.....4  |         | 59.06.5104   | 100 nF | 5% 63 V PETP                |        |
| C.....5  |         | 59.34.2330   | 33 pF  | 5% 63 V CER                 |        |
| C.....6  |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....7  |         | 59.34.4560   | 56 pF  | 5% 63 V CER                 |        |
| C.....8  |         | 59.26.2229   | 22 uF  | 20% 16 V SAL                |        |
| C.....9  |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....10 |         | 59.34.2330   | 33 pF  | 5% 63 V CER                 |        |
| C.....11 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....12 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....13 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....14 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....15 |         | 59.06.0104   | 100 nF | 10% 63 V PETP               |        |
| C.....16 |         | 59.22.6220   | 22 uF  | -20% 35 V EL                |        |
| C.....17 |         | 59.06.0104   | 100 nF | 10% 25 V PETP               |        |
| C.....18 |         | 59.06.0104   | 100 nF | 10% 63 V PETP               |        |
| C.....19 |         | 59.22.6100   | 10 uF  | -20% 35 V EL                |        |
| C.....20 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....21 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....22 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....23 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....24 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....25 |         | 59.06.0683   | 68 nF  | 10% 63 V PETP               |        |
| C.....26 |         | 59.22.5101   | 100 uF | -20% 25 V EL                |        |
| C.....27 |         | 59.22.5471   | 470 uF | -20% 25 V EL                |        |
| C.....28 |         | 59.22.5471   | 470 uF | -20% 25 V EL                |        |
| C.....29 |         | 59.06.0104   | 100 nF | 10% 63 V PETP               |        |
| C.....30 |         | 59.22.6220   | 22 uF  | -20% 35 V EL                |        |
| C.....31 |         | 59.06.0104   | 100 nF | 10% 63 V PETP               |        |
| D.....1  |         | 50.04.0125   | 1N4448 | Diode                       |        |

| IND.      | POS.NO. | PART NO.   | VALUE      | SPECIFICATIONS / EQUIVALENT            | MANUF. |
|-----------|---------|------------|------------|--|--------|
| IC.....1  |         | 50.14.0133 | CD6264LP15 | Hex Inverter                           |        |
| IC.....2  |         | 50.06.0004 | 74 LS 04   | Reset Circuit                          |        |
| IC.....3  |         | 50.11.0122 | TL7705ACP  | 8-Bit Microprocessor                   |        |
| IC.....4  |         | 50.16.0121 | H0638031P  | TC Biphas Conv. SW XX/89, 1.727.712.20 | St     |
| IC.....5  |         | 50.18.0100 | GAL 16 V   | TC Biphas Conv. SW 1.727.712.20        | St     |
| IC.....6  |         | 50.17.0000 | 74 HCT 00  | Quad 2-Input NAND Gate                 |        |
| IC.....7  |         | 50.17.0000 | 74 HCT 00  | Quad 2-Input NAND Gate                 |        |
| IC.....8  |         | 50.07.0015 | MC 14053   | Triple 3-Ch Analog Switch, CMOS        |        |
| IC.....9  |         | 50.17.0573 | 74 HCT573  | Octal D-Type Trans. Latch              |        |
| IC.....10 |         | 50.15.0103 | MC 14504B  | Hex in/out Voltage Level Shifter       |        |
| IC.....11 |         | 50.17.1014 | 74 HC 14   | Hex Schmitt-Trigger Inverter           |        |
| IC.....12 |         | 50.14.2004 | HN27C256   | EPROM, SW A807 TCP XX/89, 1.727.711.20 | St     |
| IC.....13 |         | 50.14.2004 | HN27C256   | EPROM, SW A807 TCP 06/90, 1.727.711.20 | St     |
| IC.....14 |         | 50.17.0138 | 74 HCT138  | H-Cmos 3/8 Decoder                     |        |
| IC.....15 |         | 50.17.0574 | 74 HCT574  | Octal D-Type Flip-Flop                 |        |
| IC.....16 |         | 50.15.0103 | MC 14504B  | Hex in/out Voltage Level Shifter       |        |
| IC.....17 |         | 50.10.0115 | LP2951     | Voltage Regulator                      |        |
| IC.....18 |         | 50.50.0020 | TCIA       | SNPTE/EBU Time Code Interface Adapter  |        |
| IC.....19 |         | 50.17.0541 | 74 HCT541  | H-CMOS Octal Buffer                    |        |
| IC.....20 |         | 50.17.0541 | 74 HCT541  | H-CMOS Octal Buffer                    |        |
| IC.....21 |         | 50.07.0015 | MC 14053   | Triple 3-Ch Analog Switch, CMOS        |        |
| IC.....22 |         | 50.15.0116 | MC 1489 P  | Quad Line Receiver RS 232              |        |
| IC.....23 |         | 50.15.0106 | MC 1488 P  | Quad Line Driver RS 232                |        |
| J.....1   |         | 54.01.0218 | 7-Pole     | CIS Socket Strip                       | AMP    |
| J.....2   |         | 54.01.0226 | 20-Pole    | CIS Socket Strip                       | AMP    |
| J.....3   |         | 54.01.0226 | 20-Pole    | CIS Socket Strip                       | AMP    |
| J.....4   |         | 54.01.0288 | 5-Pole     | CIS Socket Strip                       | AMP    |
| J.....5   |         | 54.01.0288 | 5-Pole     | CIS Socket Strip                       | AMP    |
| J.....6   |         | 54.01.0288 | 5-Pole     | CIS Socket Strip                       | AMP    |
| J.....7   |         | 54.01.0288 | 5-Pole     | CIS Socket Strip                       | AMP    |
| J.....8   |         | 54.01.0290 | 10-Pole    | CIS Socket Strip                       | AMP    |
| J.....9   |         | 54.01.0218 | 7-Pole     | CIS Socket Strip                       | AMP    |
| J.....10  |         | 54.10.2026 | 20 Pole    | Print Socket Strip                     |        |
| J.....11  |         | 54.10.2015 | 18 Pole    | Print Socket Strip                     |        |

| IND.      | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|-----------|---------|--------------|----------|-----------------------------|--------|
| K.....1   |         | 56.04.0171   | 12 V     | ReIain 2U                   |        |
| L.....1   |         | 62.02.3220   | 22 MH    |                             |        |
| L.....2   |         | 62.02.3220   | 22 MH    |                             |        |
| MP.....1  |         | 1.727.710.11 | 1 pce    | TC Processor PCB            | St     |
| MP.....2  |         | 1.010.049.22 | 2 pce    | Rivet bolt, M3 x 10         | St     |
| MP.....3  |         | 1.010.060.22 | 2 pce    | Rivet bolt, M3 x 7          | St     |
| MP.....4  |         | 1.727.710.02 | 1 pce    | Mounting profile            | St     |
| MP.....5  |         | 1.727.710.01 | 1 pce    | Screen bonnet               | St     |
| MP.....6  |         | 21.53.9354   | 4 pce    | Screw, M3 x 6               |        |
| MP.....7  |         | 23.01.1032   | 4 pce    | Washer M3                   |        |
| MP.....8  |         | 24.16.1030   | 4 pce    | Washer M3                   |        |
| MP.....9  |         | 1.010.101.27 | 2 pce    | Screw bolt, M3 x 12         |        |
| MP.....10 |         | 1.010.110.27 | 2 pce    | Screw bolt, M3 x 18         |        |
| MP.....11 |         | 65.99.0182   | 3 pce    | Foam rubber strips, l=94    |        |
| MP.....12 |         | 1.727.710.03 | 1 pce    | Isolation                   | St     |
| MP.....13 |         | 1.727.710.04 | 1 pce    | Text label                  | St     |
| Q.....1   |         | 50.03.0436   | BC237B   | NPN                         |        |
| R.....1   |         | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF               |        |
| R.....2   |         | 57.11.3182   | 1.8 kOhm | 1%, 0.25W, MF               |        |
| R.....3   |         | 57.11.3182   | 1.8 kOhm | 1%, 0.25W, MF               |        |
| R.....4   |         | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF               |        |
| R.....5   |         | 57.11.3562   | 5.6 kOhm | 1%, 0.25W, MF               |        |
| R.....6   |         | 57.11.3103   | 10 kOhm  | 1%, 0.25W, MF               |        |
| R.....7   |         | 57.11.3153   | 15 kOhm  | 1%, 0.25W, MF               |        |
| R.....8   |         | 57.11.3472   | 4.7 kOhm | 1%, 0.25W, MF               |        |
| R.....9   |         | 57.11.3181   | 180 Ohm  | 1%, 0.25W, MF               |        |
| R.....10  |         | 57.11.3334   | 330 kOhm | 1%, 0.25W, MF               |        |
| R.....11  |         | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF               |        |
| R.....12  |         | 57.11.3332   | 3.3 kOhm | 1%, 0.25W, MF               |        |

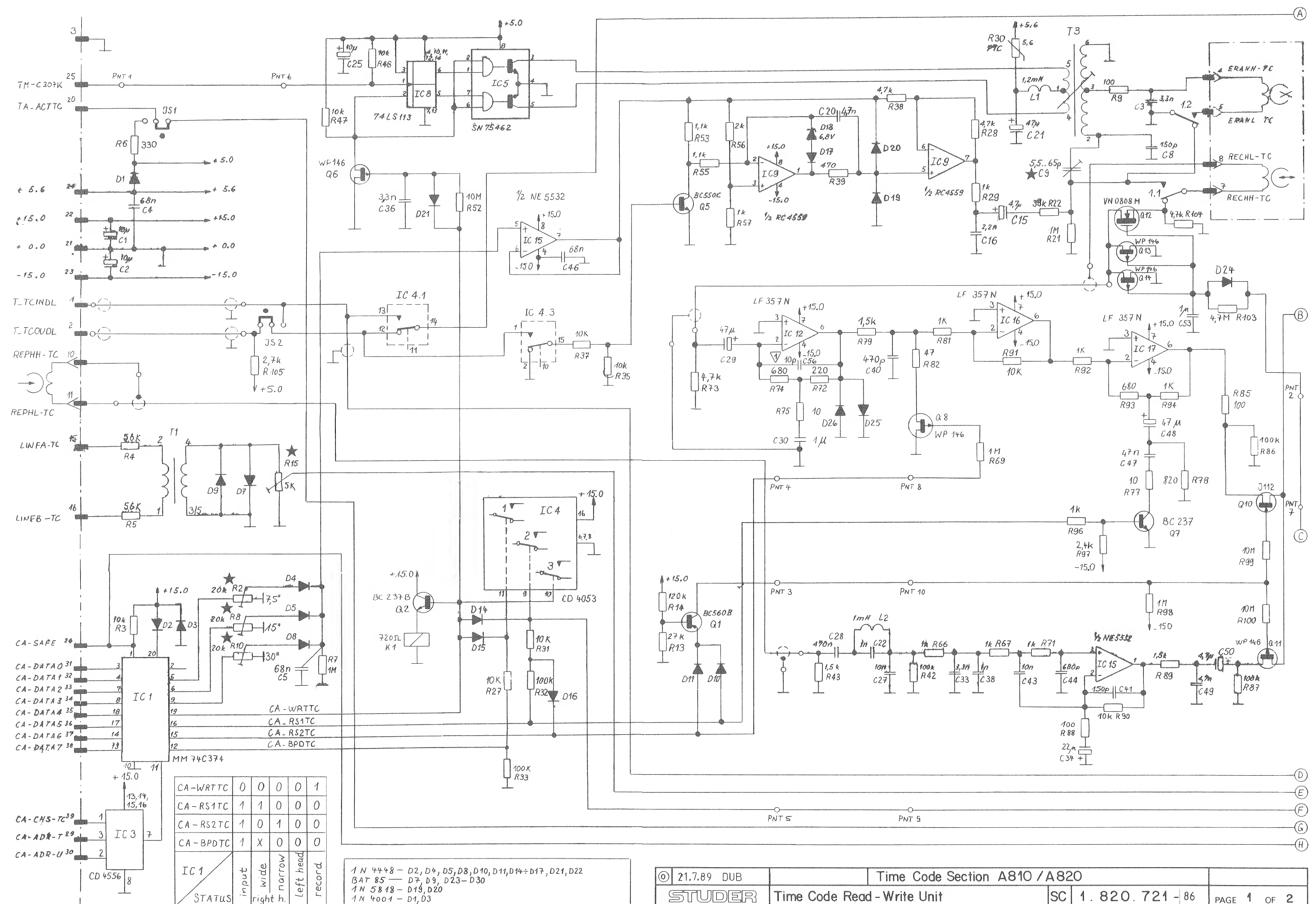
| IND.    | POS.NO. | PART NO.   | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF. |
|---------|---------|------------|------------|-----------------------------|--------|
| Y.....1 |         | 89.01.0560 | 4.9152 MHz | Quarz TD 18                 |        |
| Y.....2 |         | 89.01.1008 | 8.0000 MHz | Quarz TD 18                 |        |

EL=Electrolytic, PETP=Polyester, PP=Polypropylen, SI=Silicon  
MF=Metal Film, PMG=Cermet, CER=Ceramic, SAL=Solid Aluminium  
MANUFACTURER: AMP=AMP, Ph=Philips, St=Studer  
ORIG 89/08/21 (01) 89/09/05 (02) 90/02/08 (03) 90/04/11



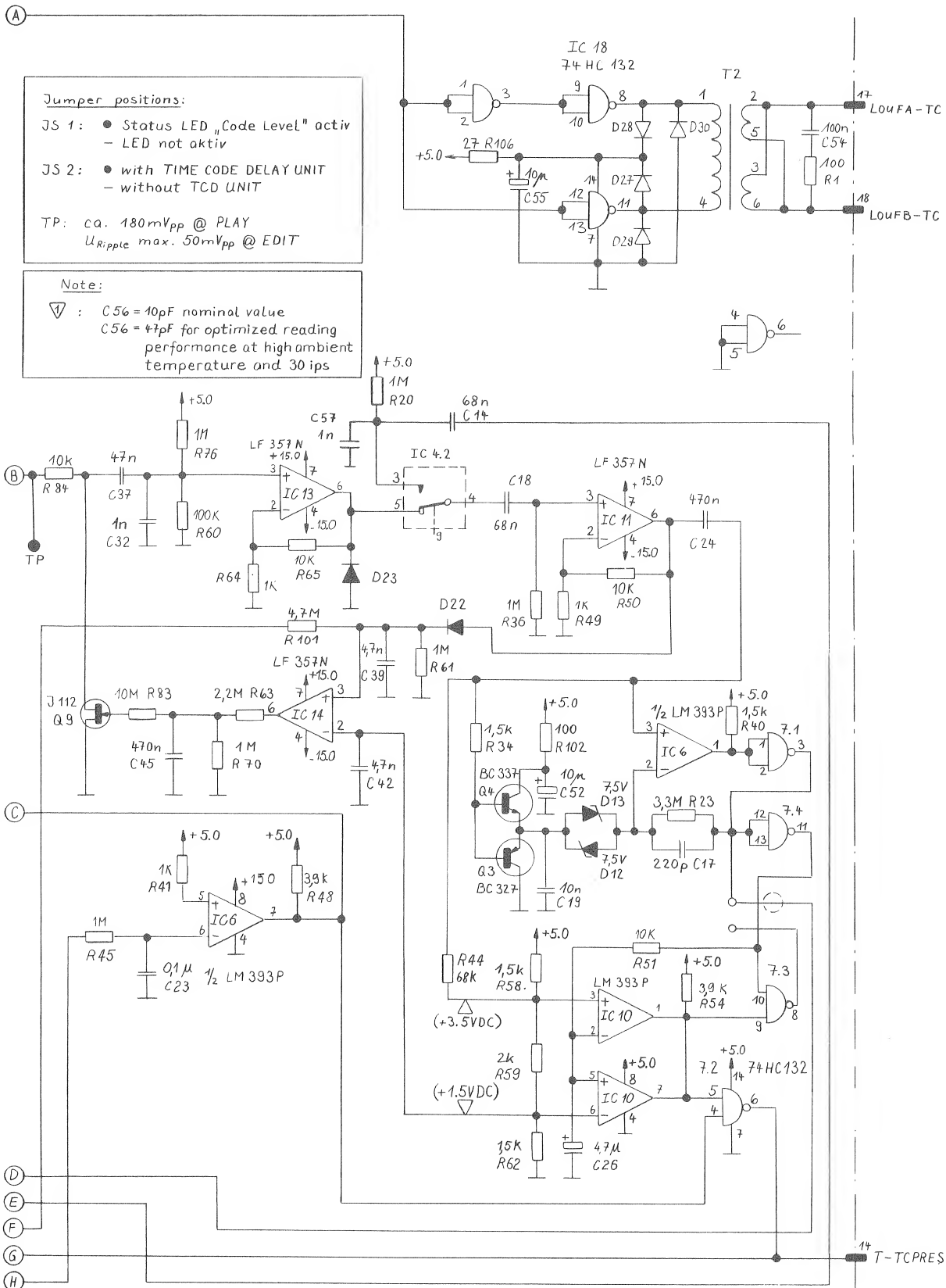
TIME CODE READ-WRITE UNIT 1.820.721.86

- ★ R15: LINE INPUT CALIBRATION RECORD
- ★ R2: RECORD LEVEL SETTING FOR 7.5" (3 1/4 IPS)
- ★ R8: RECORD LEVEL SETTING FOR 15"
- ★ R10: RECORD LEVEL SETTING FOR 30"
- ★ C9: BIAS CURRENT ALIGNMENT



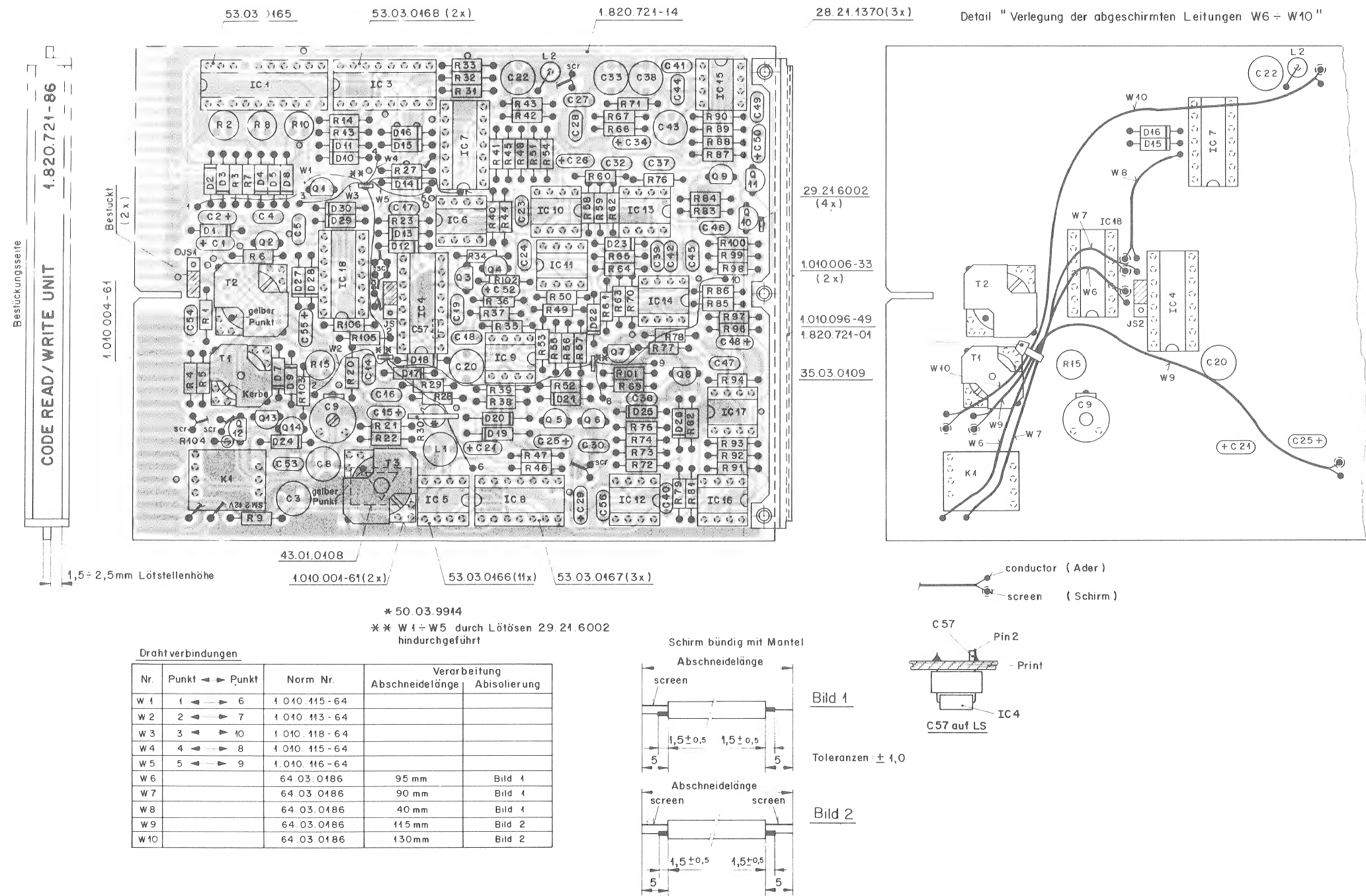


## TIME CODE READ-WRITE UNIT 1.820.721.86



|               |                                 |                 |             |
|---------------|---------------------------------|-----------------|-------------|
| © 21.7.89 DUB | Time Code Section A 810 / A 820 |                 |             |
| STUDER        | Time Code Read - Write Unit     | SC 1.820.721-86 | PAGE 2 OF 2 |

TIME CODE READ-WRITE UNIT 1.820.721.86

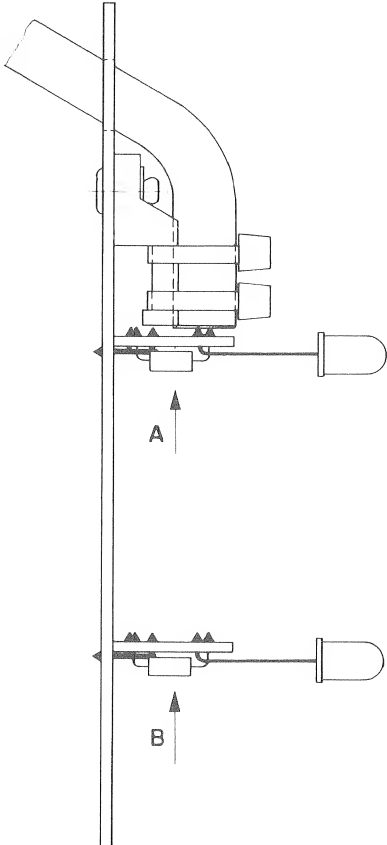
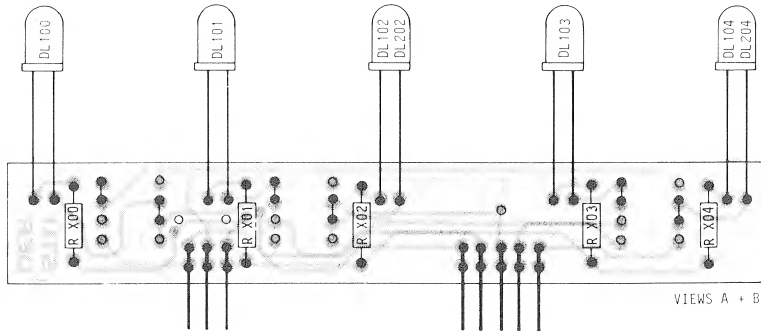
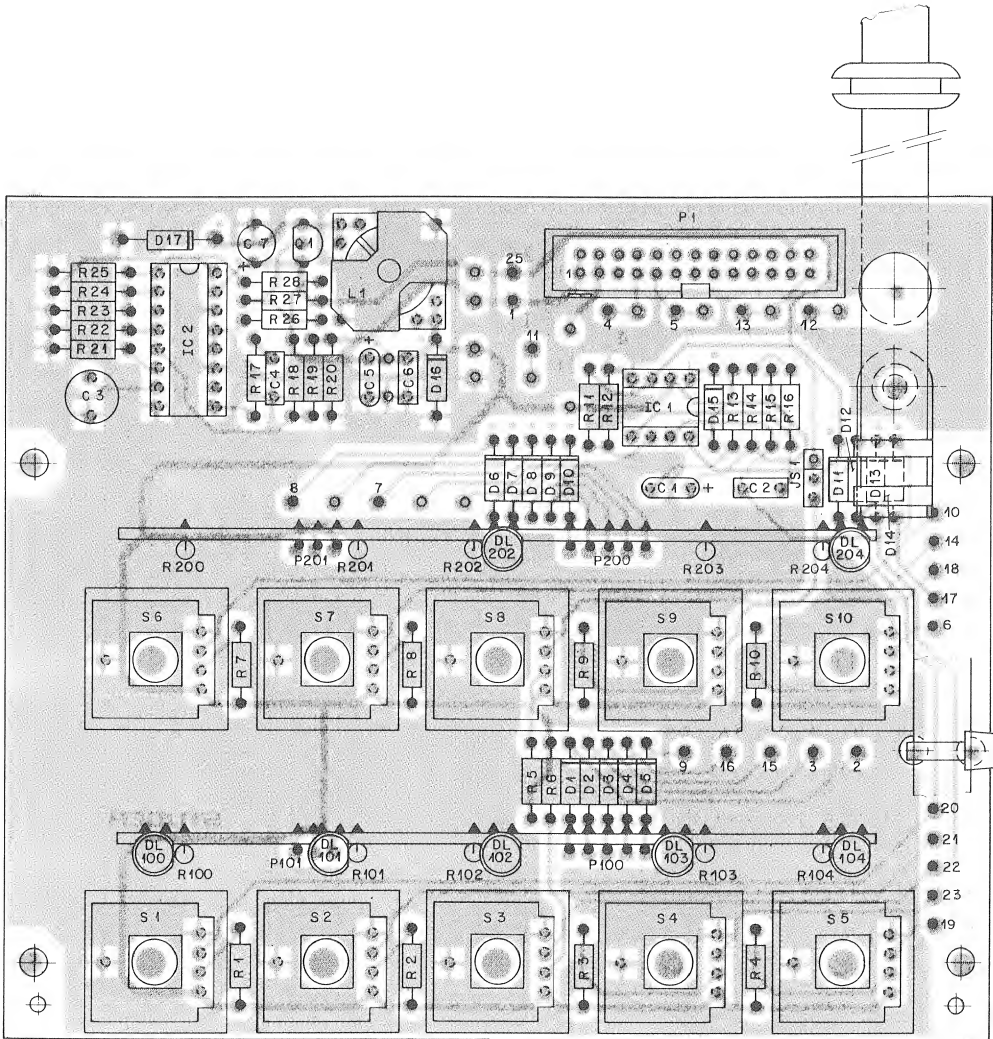


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TAPE DECK REMOTE CONTROL CABINET (PARALLEL) 1.328.250.00  
-TAPE DECK REMOTE CONTROL PCB 1.328.251.00



| IND.     | POS.NO. | PART NO.     | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF.     |
|----------|---------|--------------|----------|-----------------------------|------------|
| IC....1  |         | 50.05.0283   | LM393N   |                             | NS,Thomson |
| IC....2  |         | 50.05.0279   | SG3524BN |                             | SG         |
| JS....1  |         |              |          | See note 1                  |            |
| L....1   |         | 1.022.197.00 | 1.5 mH   |                             | St         |
| P....1   |         | 54.14.2003   | 26 cont. | See note 2                  |            |
| P....101 |         | 54.01.0269   | 5 cont.  | AMP Nr. 163.740-3           |            |
| P....200 |         | 54.01.0227   | 3 cont.  | AMP Nr. 163.740-1           |            |
| P....201 |         | 54.01.0269   | 5 cont.  | AMP Nr. 163.740-3           |            |
| P....201 |         | 54.01.0227   | 3 cont.  | AMP Nr. 163.740-1           |            |
| Q....1   |         | 50.03.0351   | BC327-25 |                             | ITT,Ph,Sie |
| R....1   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....2   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....3   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....4   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....5   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....6   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....7   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....8   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....9   |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....10  |         | 57.11.4331   | 330 Ohm  |                             |            |
| R....11  |         | 57.11.4223   | 22 kOhm  |                             |            |
| R....12  |         | 57.11.4222   | 2.2 kOhm |                             |            |
| R....13  |         | 57.11.4122   | 1.2 kOhm |                             |            |
| R....14  |         | 57.11.4473   | 47 kOhm  |                             |            |
| R....15  |         | 57.11.4105   | 1 kOhm   |                             |            |
| R....16  |         | 57.11.4103   | 10 kOhm  |                             |            |
| R....17  |         | 57.11.4392   | 3.9 kOhm |                             |            |
| R....18  |         | 57.11.4222   | 2.2 kOhm |                             |            |
| R....19  |         | 57.11.4101   | 100 Ohm  |                             |            |
| R....20  |         | 57.11.4109   | 1 Ohm    |                             |            |
| R....21  |         | 57.11.4122   | 1.2 kOhm |                             |            |
| R....22  |         | 57.11.4101   | 100 Ohm  |                             |            |

S T U D E R (00) 85/03/01 PB TAPE DECK REMOTE CONTROL 1.328.251.00 PAGE 2

| IND.     | POS.NO. | PART NO.   | VALUE    | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|------------|----------|-----------------------------|--------|
| R....23  |         | 57.11.4472 | 4.7 kOhm |                             |        |
| R....24  |         | 57.11.4472 | 4.7 kOhm |                             |        |
| R....25  |         | 57.11.4472 | 4.7 kOhm |                             |        |
| R....26  |         | 57.11.4102 | 1 kOhm   |                             |        |
| R....27  |         | 57.11.4101 | 100 Ohm  |                             |        |
| R....28  |         | 57.11.4472 | 4.7 kOhm |                             |        |
| R....100 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....101 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....102 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....103 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....104 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....200 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....201 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....202 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....203 |         | 57.11.4151 | 150 Ohm  |                             |        |
| R....204 |         | 57.11.4151 | 150 Ohm  |                             |        |

- S....1 See note 3
- S....2 See note 3
- S....3 See note 3
- S....4 See note 3
- S....5 See note 3
- S....6 See note 3
- S....7 See note 3
- S....8 See note 3
- S....9 See note 3
- S....10 See note 3

S T U D E R (00) 85/03/01 PB TAPE DECK REMOTE CONTROL 1.328.251.00 PAGE 3

| IND.      | POS.NO. | PART NO.   | VALUE   | SPECIFICATIONS / EQUIVALENT    | MANUF.          |
|-----------|---------|------------|---------|--------------------------------|-----------------|
| C....1    |         | 59.26.2100 | 10 uF   | 20%, 16V, Sal                  | Ph              |
| C....2    |         | 59.06.5102 | 1 nF    | 5%, PETP                       |                 |
| C....3    |         | 59.05.1103 | 10 nF   | 1%, Pp                         |                 |
| C....4    |         | 59.06.0223 | 22 nF   | 10%, PETP                      |                 |
| C....5    |         | 59.26.0680 | 68 uF   | 20%, 6.3V, Sal                 | Ph              |
| C....6    |         | 59.06.0683 | 68 nF   | 20%, PETP                      |                 |
| C....7    |         | 59.22.6100 | 10 uF   | -10%, 40V, ET                  |                 |
| D....1    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....2    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....3    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....4    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....5    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....6    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....7    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....8    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....9    |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....10   |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....11   |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....12   |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....13   |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....14   |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....15   |         | 50.04.0125 | 1N4448  |                                | Fc+ITT+Ph+Se+TF |
| D....16   |         | 50.04.1118 | 6.2 V Z | BZX3C 6.2, BZX55C 6.2, ZPD 6.2 | ITT,Se          |
| D....17   |         | 50.04.0512 | 1N5819  | Not                            |                 |
| DL....100 |         | 50.04.2112 | Mu5353  | CM4-584B, HLMP-3401            | CM+GI+HP        |
| DL....101 |         | 50.04.2112 | Mu5353  | CM4-584B, HLMP-3401            | CM+GI+HP        |
| DL....102 |         | 50.04.2112 | Mu5353  | CM4-584B, HLMP-3401            | CM+GI+HP        |
| DL....103 |         | 50.04.2112 | Mu5353  | CM4-584B, HLMP-3401            | CM+GI+HP        |
| DL....104 |         | 50.04.2111 | Mu5353  | CM4-284B, HLMP-3301            | CM+GI+HP        |
| DL....200 |         | not used   |         |                                |                 |
| DL....201 |         | not used   |         |                                |                 |
| DL....202 |         | 50.04.2112 | Mu5353  | CM4-584B, HLMP-3401            | CM+GI+HP        |
| DL....203 |         | not used   |         |                                |                 |
| DL....204 |         | 50.04.2112 | Mu5353  | CM4-584B, HLMP-3401            | CM+GI+HP        |

S T U D E R (00) 85/03/01 PB TAPE DECK REMOTE CONTROL 1.328.251.00 PAGE 1

| IND.   | POS.NO. | PART NO.     | VALUE                  | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--------|---------|--------------|------------------------|-----------------------------|--------|
| Note 1 |         | Contact pin: | Studer 54.01.0020,     | Berg 75 160-102-36          |        |
|        |         | Bridge:      | Studer 54.01.0021,     | Philips 2422 024 88003      |        |
| Note 2 |         | Connector:   | Yamaichi FAP-26-08/74, | Hurnidy BPH 9 B 26 900 G5   |        |
| Note 3 |         | Switch:      | Studer 55.03.0261,     | Raf1 3.13001.110            |        |
|        |         | Extender:    | Studer 55.03.0262,     | Raf1 5.55101.690            |        |

Let=Ceramics, Et=Electrolytic, Sal=Solid aluminium, PETP=Polyesterfilm, Pp=Polypropylene.

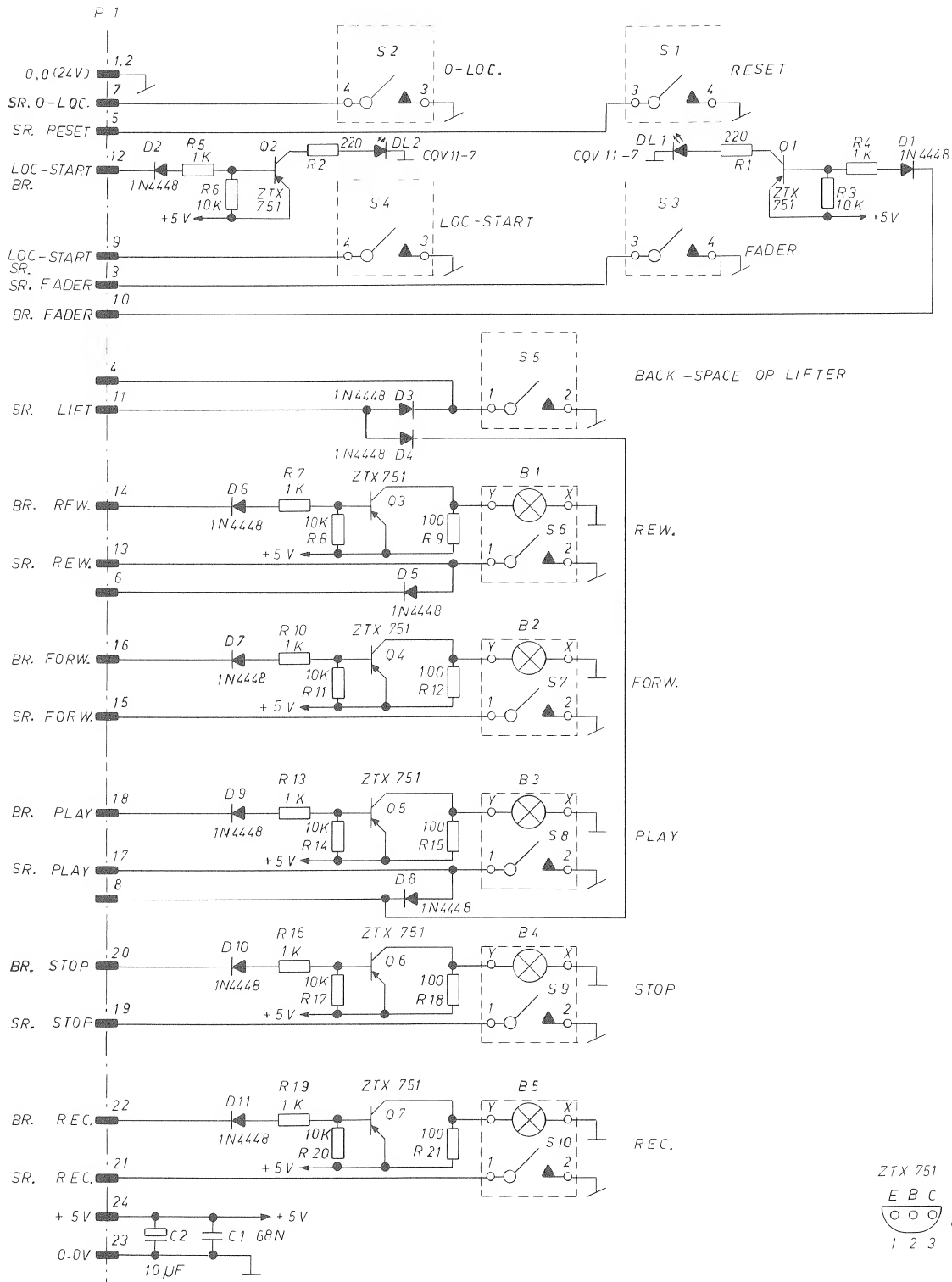
MANUFACTURER: CM=Chicago Miniatur, Fc=Fairchild, GI=General Instruments, HP=Hewlett Packard, ITT=International, Mo=Motorola, NS=National Semiconductors, Ph=Philips, Se=Seiscovey, SG=Silicon General, Sie=Siemens, St=Studer, Tho=Thomson, TI=Texas Instruments, Tf=Telefunken.

ORIG 85/03/01  
S T U D E R (00) 85/03/01 PB TAPE DECK REMOTE CONTROL 1.328.251.00 PAGE 4



**TAPE DECK REMOTE CONTROL MODULE (PARALLEL) 1.328.255.00**  
**-PUSHBUTTON PCB 1.328.256.00**

TO 1.328.257-00



|                  |                                 |                 |
|------------------|---------------------------------|-----------------|
| 12.02.86 C. METZ | MODUL PARALLEL A727, A812, A820 | PAGE 1 OF 1     |
| STUDER           | PUSHBUTTON BOARD                | SC 1.328.256-00 |

TAPE DECK REMOTE CONTROL MODULE (PARALLEL) 1.328.255.00  
-PUSHBUTTON PCB 1.328.256.00

55.15.0122

DL 1

DL 2

55.15.0128 (3x)

J1 (18 Stk.)

55.15.0212

55.15.0228 (6x)

55.15.0224 (6x)

55.15.0202 (5x)

55.15.0201

| IND.     | POS.NO. | PART NO.     | VALUE      | SPECIFICATIONS / EQUIVALENT | MANUF. |
|----------|---------|--------------|------------|-----------------------------|--------|
| B.....1  |         | 51.02.0155   |            | 5 V; 0.060 A                |        |
| B.....2  |         | 51.02.0155   |            | 5 V; 0.060 A                |        |
| B.....3  |         | 51.02.0155   |            | 5 V; 0.060 A                |        |
| B.....4  |         | 51.02.0155   |            | 5 V; 0.060 A                |        |
| B.....5  |         | 51.02.0155   |            | 5 V; 0.060 A                |        |
| C.....1  |         | 59.06.0683   | .068 u     | 10%; 63V, PETP              |        |
| C.....2  |         | 59.26.2100   | 10 u       | 20%; 16V, SAL               |        |
| D.....1  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....2  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....3  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....4  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....5  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....6  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....7  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....8  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....9  |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....10 |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| D.....11 |         | 50.04.0125   | 1 N 4448   | 75 V; 0.1 A Si.             |        |
| DL.....1 |         | 50.04.2129   | LS 3160    | Diffused red (see Note 2)   | Sie.   |
| DL.....2 |         | 50.04.2129   | LS 3160    | Diffused red (see Note 2)   | Sie.   |
| P.....1  |         | 1.010.019.54 | 2 x 12 pin | 24 pcs. L = 20 MM.          |        |
| Q.....1  |         | 50.03.0352   | ZTX 751 S  | 60 V; 2 A PNP Si.           | Fe.    |
| Q.....2  |         | 50.03.0352   | ZTX 751 S  | 60 V; 2 A PNP Si.           | Fe.    |
| Q.....3  |         | 50.03.0352   | ZTX 751 S  | 60 V; 2 A PNP Si.           | Fe.    |
| Q.....4  |         | 50.03.0352   | ZTX 751 S  | 60 V; 2 A PNP Si.           | Fe.    |
| Q.....5  |         | 50.03.0352   | ZTX 751 S  | 60 V; 2 A PNP Si.           | Fe.    |
| Q.....6  |         | 50.03.0352   | ZTX 751 S  | 60 V; 2 A PNP Si.           | Fe.    |
| Q.....7  |         | 50.03.0352   | ZTX 751 S  | 60 V; 2 A PNP Si.           | Fe.    |
| R.....1  |         | 57.11.4221   | 220        | 2%; 0207, MF                |        |
| R.....2  |         | 57.11.4221   | 220        | 2%; 0207, MF                |        |
| R.....3  |         | 57.11.4103   | 10 k       | 2%; 0207, MF                |        |

STUDER (01) 87/05/11 CM PUSHBUTTON BOARD PL 1.328.256-00 PAGE 1

| IND.     | POS.NO. | PART NO.   | VALUE | SPECIFICATIONS / EQUIVALENT                  | MANUF. |
|----------|---------|------------|-------|--|--------|
| R.....4  |         | 57.11.4102 | 1.0 k | 2%; 0207, MF                                 |        |
| R.....5  |         | 57.11.4102 | 1.0 k | 2%; 0207, MF                                 |        |
| R.....6  |         | 57.11.4103 | 10 k  | 2%; 0207, MF                                 |        |
| R.....7  |         | 57.11.4102 | 1.0 k | 2%; 0207, MF                                 |        |
| R.....8  |         | 57.11.4103 | 10 k  | 2%; 0207, MF                                 |        |
| R.....9  |         | 57.11.4101 | 100   | 2%; 0207, MF                                 |        |
| R.....10 |         | 57.11.4102 | 1.0 k | 2%; 0207, MF                                 |        |
| R.....11 |         | 57.11.4103 | 10 k  | 2%; 0207, MF                                 |        |
| R.....12 |         | 57.11.4101 | 100   | 2%; 0207, MF                                 |        |
| R.....13 |         | 57.11.4102 | 1.0 k | 2%; 0207, MF                                 |        |
| R.....14 |         | 57.11.4103 | 10 k  | 2%; 0207, MF                                 |        |
| R.....15 |         | 57.11.4101 | 100   | 2%; 0207, MF                                 |        |
| R.....16 |         | 57.11.4102 | 1.0 k | 2%; 0207, MF                                 |        |
| R.....17 |         | 57.11.4103 | 10 k  | 2%; 0207, MF                                 |        |
| R.....18 |         | 57.11.4101 | 100   | 2%; 0207, MF                                 |        |
| R.....19 |         | 57.11.4102 | 1.0 k | 2%; 0207, MF                                 |        |
| R.....20 |         | 57.11.4103 | 10 k  | 2%; 0207, MF                                 |        |
| R.....21 |         | 57.11.4101 | 100   | 2%; 0207, MF                                 |        |
| S.....1  |         | 55.15.0112 | MK II | Momentary pushbutton switch (see Note 1)MEK. |        |
| S.....2  |         | 55.15.0112 | MK II | Momentary pushbutton switch (see Note 1)MEK. |        |
| S.....3  |         | 55.15.0112 | MK II | Momentary pushbutton switch (see Note 1)MEK. |        |
| S.....4  |         | 55.15.0112 | MK II | Momentary pushbutton switch (see Note 1)MEK. |        |
| S.....5  |         | 55.15.0231 |       | Momentary pushbutton switch                  | EAO    |
| S.....6  |         | 55.15.0231 |       | Momentary pushbutton switch                  | EAO    |
| S.....7  |         | 55.15.0231 |       | Momentary pushbutton switch                  | EAO    |
| S.....8  |         | 55.15.0231 |       | Momentary pushbutton switch                  | EAO    |
| S.....9  |         | 55.15.0231 |       | Momentary pushbutton switch                  | EAO    |
| S.....10 |         | 55.15.0231 |       | Momentary pushbutton switch                  | EAO    |

STUDER (01) 87/05/11 CM PUSHBUTTON BOARD PL 1.328.256-00 PAGE 2

| IND.   | POS.NO. | PART NO. | VALUE | SPECIFICATIONS / EQUIVALENT | MANUF. |
|--|---------|----------|-------|-----------------------------|--------|
| Note 1 : Device mounted on 53.01.0218 pins. (4 x 2 pcs.)   |         |          |       |                             |        |
| Index (01) --> Note 2 : Device mounted on 53.99.0126 pins. (1 x 2 pcs.)  |         |          |       |                             |        |
| CER=Ceramic, EL=Electrolytic, MP=Metallized Paper, MPC=Metallized Poly-carbonate, MPETP=Metallized Polyester, PC=Polycarbonate, PETP=Polyester, PP=Polypropylene, PS=Polystyrol, SAL=Solid Aluminium, TA=Tantal Cermet=Ceramic Metal, MF=Metal Film. |         |          |       |                             |        |
| MANUFACTURERS :  |         |          |       |                             |        |
| EAO = Elektro Apparaten Olten  |         |          |       |                             |        |
| Fe = Ferranti  |         |          |       |                             |        |
| MEK = Mechanisk Elektrisk Compagni af 1975   |         |          |       |                             |        |
| Sie = Siemens  |         |          |       |                             |        |

ORIG 87/05/11

STUDER (01) 87/05/11 CM PUSHBUTTON BOARD PL 1.328.256-00 PAGE 3